SCHEMATIC DIAGRAM

MODEL : 42HP95/50HP95

WARNING : BEFORE SERVICING THIS CHASSIS, READ THE "SERVICE SAFETY PRECAUTIONS" ON THE MANUAL FOR THIS MODEL.

CAUTION : The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the SERVICE SAFETY PRECAUTIONS on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

NOTE:

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
   $-\overset{+}{|}|-$ Electolytic capacitor $-\overset{M}{|}|-$ Mylar capacitor
3. The parts indicated with " ⚠ " have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

■ SCHEMATIC DIAGRAM STRUCTURE:

MULTI CARD		[SHEET-1/4]	1/128
		[SHEET-2/4]	2/128
		[SHEET-3/4]	3/128
		[SHEET-4/4]	4/128
TN/AV A-OUT	CONNECTOR	[SHEET-1/8]	5/128
	AV TERMINAL	[SHEET-2/8]	6/128
	RF-SW&TIF	[SHEET-3/8]	7/128
	A-OUT	[SHEET-4/8]	8/128
	VIDEO-SW	[SHEET-5/8]	9/128
	AUDIO-SW	[SHEET-6/8]	10/128
	IR-MICON	[SHEET-7/8]	11/128
	EXPANDER FOR PDP	[SHEET-8/8]	12/128
FRONT-AV			13/128
IR LED			14/128
KEY			15/128
LOWB			16/128
SIGNAL	ANALOG IN	[SHEET-200]	17/128
	D IN A	[SHEET-300]	18/128
	D IN B	[SHEET-301]	19/128
	HDMI (Link, I2C)	[SHEET-302]	20/128
	HDMI Rx#2 (Video/Audio)	[SHEET-303]	21/128
	HDMI Rx#3 (PWR,Audio)	[SHEET-304]	22/128
	HDMI AUDIO PLL	[SHEET-305]	23/128
	HDMI AUDIO DAC	[SHEET-306]	24/128
	HDMI AUDIO OUT	[SHEET-307]	25/128
	HDMI CONTROLLER	[SHEET-308]	26/128
	EEPROM1	[SHEET-309]	27/128
	EEPROM2	[SHEET-310]	28/128
	MICRO I/O	[SHEET-400]	29/128
	OCM MEMORY I/F	[SHEET-401]	30/128
	FLASH MEMORY	[SHEET-402]	31/128
	SYNC SEPA	[SHEET-403]	32/128
	E2P OTHER	[SHEET-404]	33/128
	STD-BY MICOR	[SHEET-405]	34/128
	CORTEZ REG 1	[SHEET-406]	35/128
	CORTEZ REG 2	[SHEET-407]	36/128
	CORTEZ REG 3	[SHEET-408]	37/128
	BOOT CONFIG	[SHEET-409]	38/128
	SERVICE CONNECTOR	[SHEET-410]	39/128
	I2C Switch	[SHEET-411]	40/128
	STBY MICRO for DVD internal	[SHEET-412]	41/128
	DVD 10pin connector	[SHEET-413]	42/128
	I2C Level shift	[SHEET-414]	43/128
	AUDIO	[SHEET-600]	44/128
	AUDIO MSP	[SHEET-601]	45/128
	CORTEZ 1	[SHEET-700]	46/128
	CORTEZ 2	[SHEET-701]	47/128
	DDR I/F	[SHEET-702]	48/128
	DDR SDRAM	[SHEET-703]	49/128
	DDR TERMINATION	[SHEET-704]	50/128
	DCDC CONV.	[SHEET-802]	51/128
	LVDS OUT	[SHEET-900]	52/128
	LVDS OUT(SHARP LCD)	[SHEET-901]	53/128
	Power Connector and Dimming	[SHEET-902]	54/128
	LVDS Power and Others	[SHEET-903]	55/128

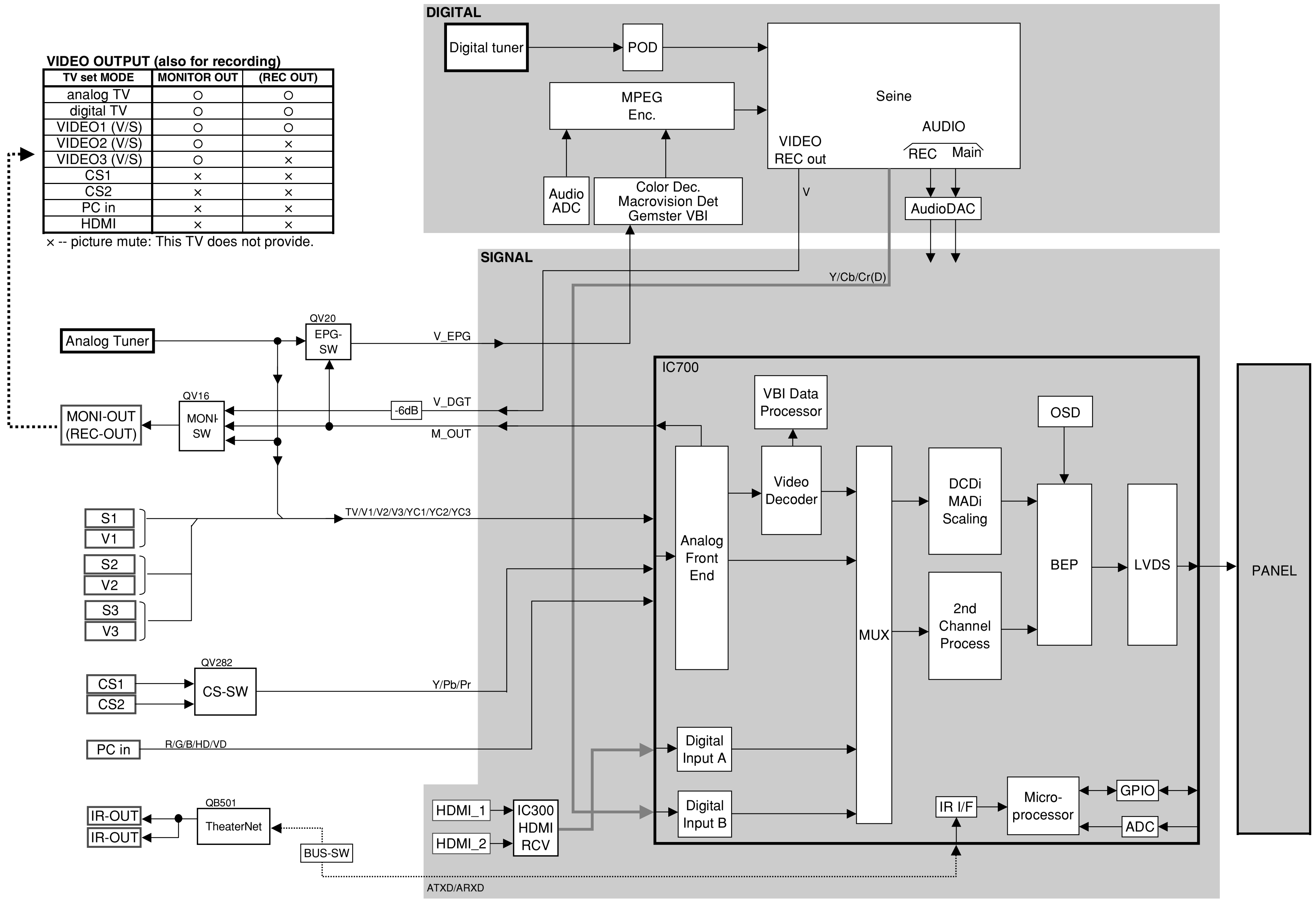
SEIN FPD FULL NON LAN

- SEINE RESET/CLOCK/TIMER/IRC [SHEET-1] 56/128
- SEINE SLOW BUS [SHEET-2] 57/128
- SLOW BUS ADDRESS REGISTER [SHEET3] 58/128
- SEINE IIC/UART [SHEET-4] 59/128
- SEINE PIO [SHEET-5] 60/128
- ROM/FLASH [SHEET-6] 61/128
- M-SYSTEM(NANDFLASHROM) [SHEET-7] 62/128
- IR [SHEET-8] 63/128
- GLINK IR-OUT [SHEET-9] 64/128
- CLOCK GEN. [SHEET-10] 65/128
- USB I/F [SHEET-11] 66/128
- UART0 INTERFACE [SHEET-12] 67/128
- EJTAG CONNECTOR [SHEET-13] 68/128
- SEINE PCI BUS [SHEET-14] 69/128
- MPU POWER [SHEET-16] 70/128
- Ext UART [SHEET-17] 71/128
- MACPHYTER 1
  - (1/2) [SHEET-20] 72/128
  - (2/2) [SHEET-21] 73/128
- RJ45 [SHEET-22] 74/128
- TUENR CONNECTOR [SHEET-100] 75/128
- T313(Signal) [SHEET-101] 76/128
- 1.1VRegulator [SHEET-102] 77/128
- T313(Power) [SHEET-103] 78/128
- Seine TS I/F [SHEET-150] 79/128
- SEINE CAPTURE IN [SHEET-200] 80/128
- VIDEO POWER [SHEET-210] 81/128
- SEINE DIGITAL OUT [SHEET-220] 82/128
- SEINE-BEP IF [SHEET-221] 83/128
- SEINE DAC OUT [SHEET-225] 84/128
- DOWN CON OUT DRIVER [SHEET-226] 85/128
- HD OUT LPF [SHEET-227] 86/128
- MACRO VCD
  - (1/2) [SHEET-240] 87/128
  - (2/2) [SHEET-241] 88/128
- VIDEO LPF [SHEET-242] 89/128
- MPEG Enc. (CLK, SDRAM) [SHEET-250] 90/128
- MPEG Enc. (AV I/F) [SHEET-251] 91/128
- MPEG Enc. (STREAM I/F) [SHEET-252] 92/128
- MPEG Enc. (POWER) [SHEET-253] 93/128
- LPF, Slicer [SHEET-260] 94/128
- H/V Sync Sep. [SHEET-261] 95/128
- AUDIO POWER [SHEET-300] 96/128
- SEINE AUDIO I/F [SHEET-301] 97/128
- AUDIO DAC [SHEET-302] 98/128
- AUDIO PLL/DAC [SHEET-303] 99/128
- AUDIO VTR OUT [SHEET-304] .. 100/128
- AUDIO SP OUT [SHEET-305] .. 101/128
- MPEG2 AUDIO TV IN [SHEET-306] .. 102/128
- MPEG2 AUDIO ADC [SHEET-307] .. 103/128
- MPEG2 AUDIO PLL [SHEET-308] .. 104/128
- AUDIO DAC 0.1CH [SHEET-309] .. 105/128
- AUDIO VTR OUT [SHEET-310] .. 106/128
- MB86619 [SHEET-400] .. 107/128
- MB86619 (POWER) [SHEET-401] .. 108/128
- CPLD XILINX [SHEET-700] .. 109/128
- SLOWBUS [SHEET-701] .. 110/128
- PODVPP [SHEET-702] .. 111/128

SEIN FPD FULL NON LAN
- POD I/F [SHEET-703] .. 112/128
- PODVCC [SHEET-704] .. 113/128
- DDR SDRAM I/F [SHEET-901] .. 114/128
- DDR 1 [SHEET-902] .. 115/128
- DDR 2 [SHEET-903] .. 116/128
- DDR 3 [SHEET-904] .. 117/128
- DDR 4 [SHEET-905] .. 118/128
- DDR POWER [SHEET-906] .. 119/128
- TERMINATOR [SHEET-907] .. 120/128
- VCXO [SHEET-941] .. 121/128
- SEINE VDD/VSS [SHEET-950] .. 122/128
- SIGNAL CONNECTOR [SHEET-960] .. 123/128
- POWER CONNECTOR [SHEET-961] .. 124/128
- Signal filter [SHEET-964] .. 125/128

D-TUNER
- TUNER CONNECTOR(TUNER) [SHEET-104] .. 126/128
- OOB FDC [SHEET-105] .. 127/128
- FAT TUNER [SHEET-106] .. 128/128

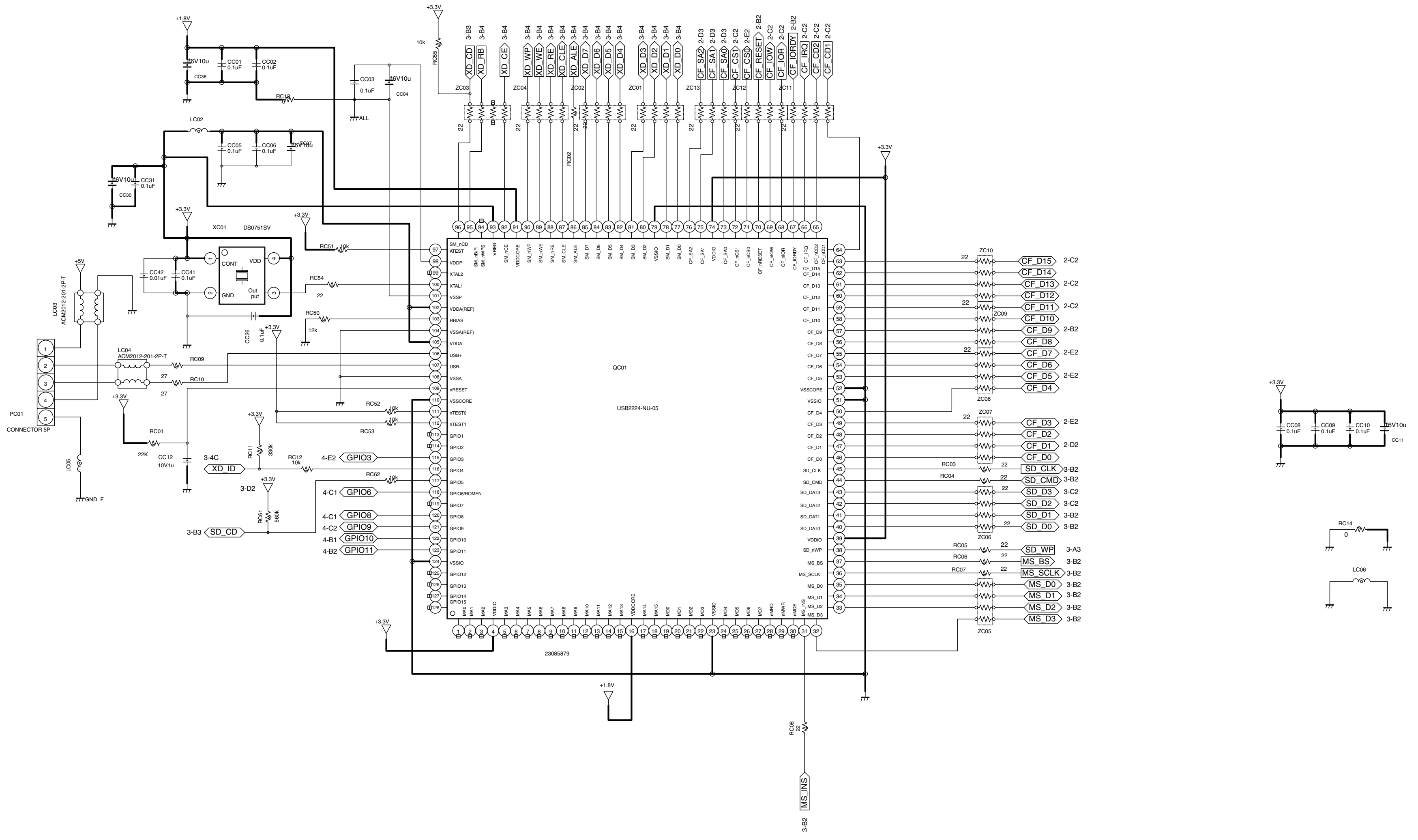
CIRCUIT BLOCK DIAGRAM



VIDEO OUTPUT (also for recording)

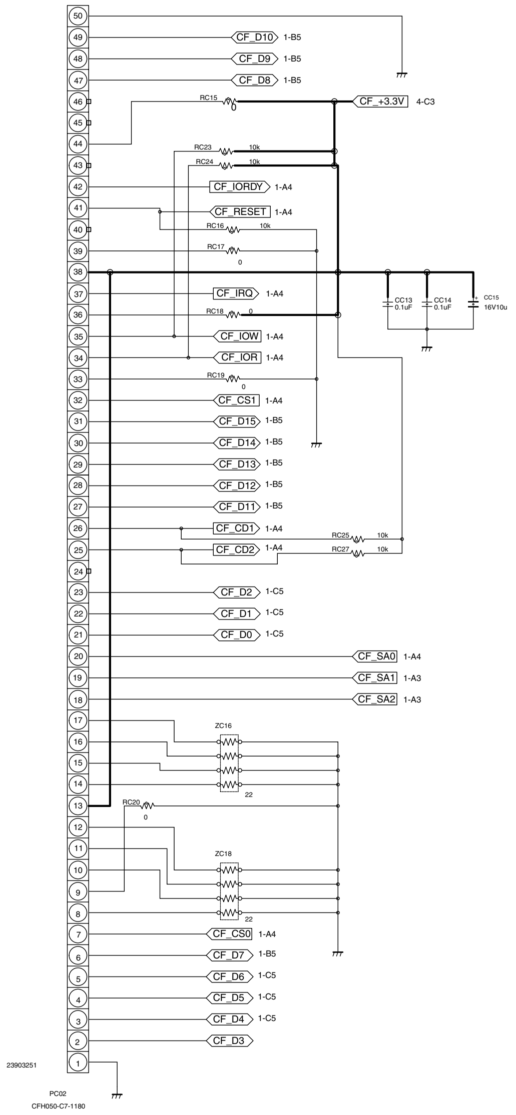
TV set MODE	MONITOR OUT	(REC OUT)
analog TV	○	○
digital TV	○	○
VIDEO1 (V/S)	○	○
VIDEO2 (V/S)	○	×
VIDEO3 (V/S)	○	×
CS1	×	×
CS2	×	×
PC in	×	×
HDMI	×	×

× -- picture mute: This TV does not provide.

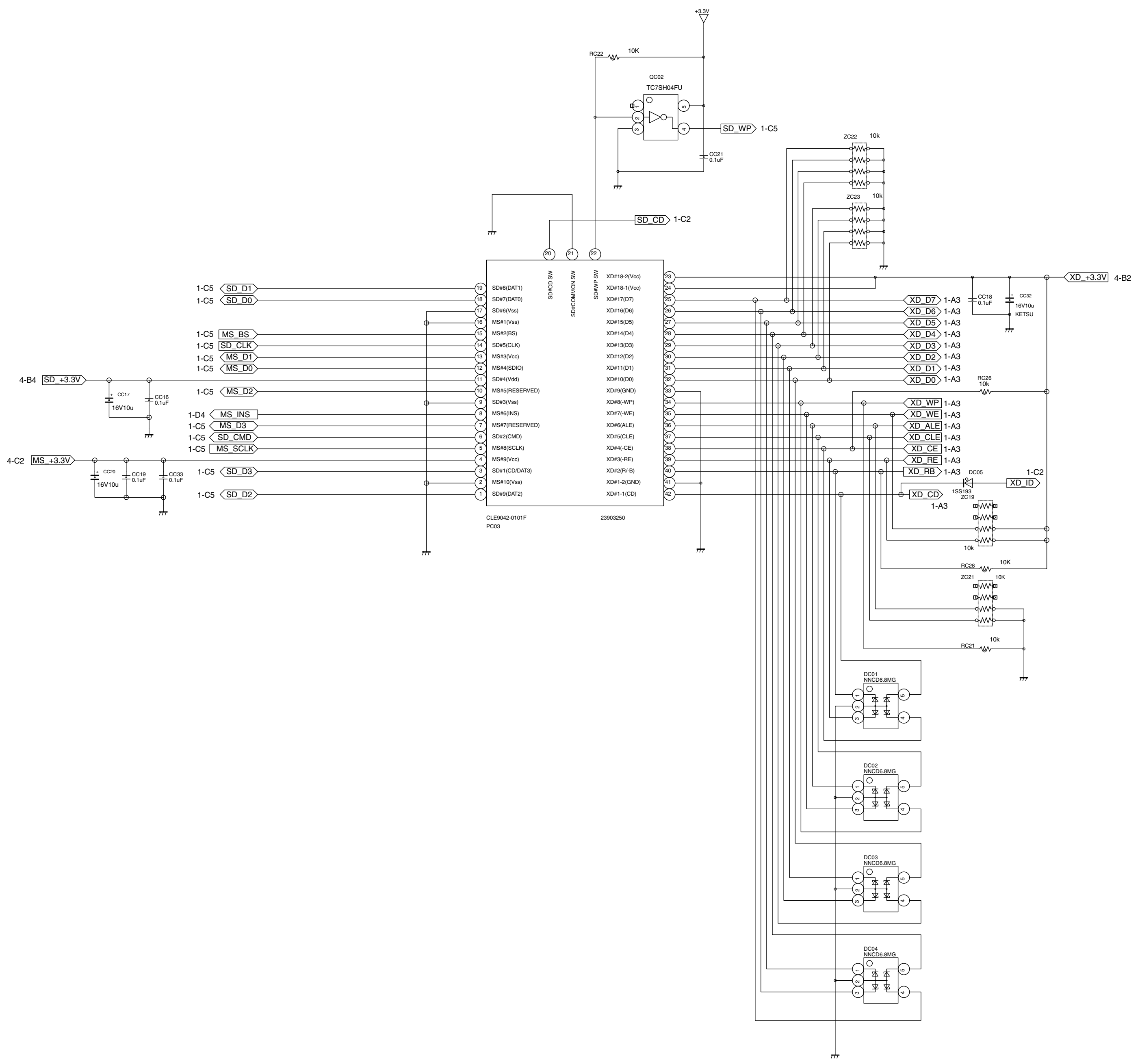


42/50HP95
MULTI CARD
[SHEET-1/4]

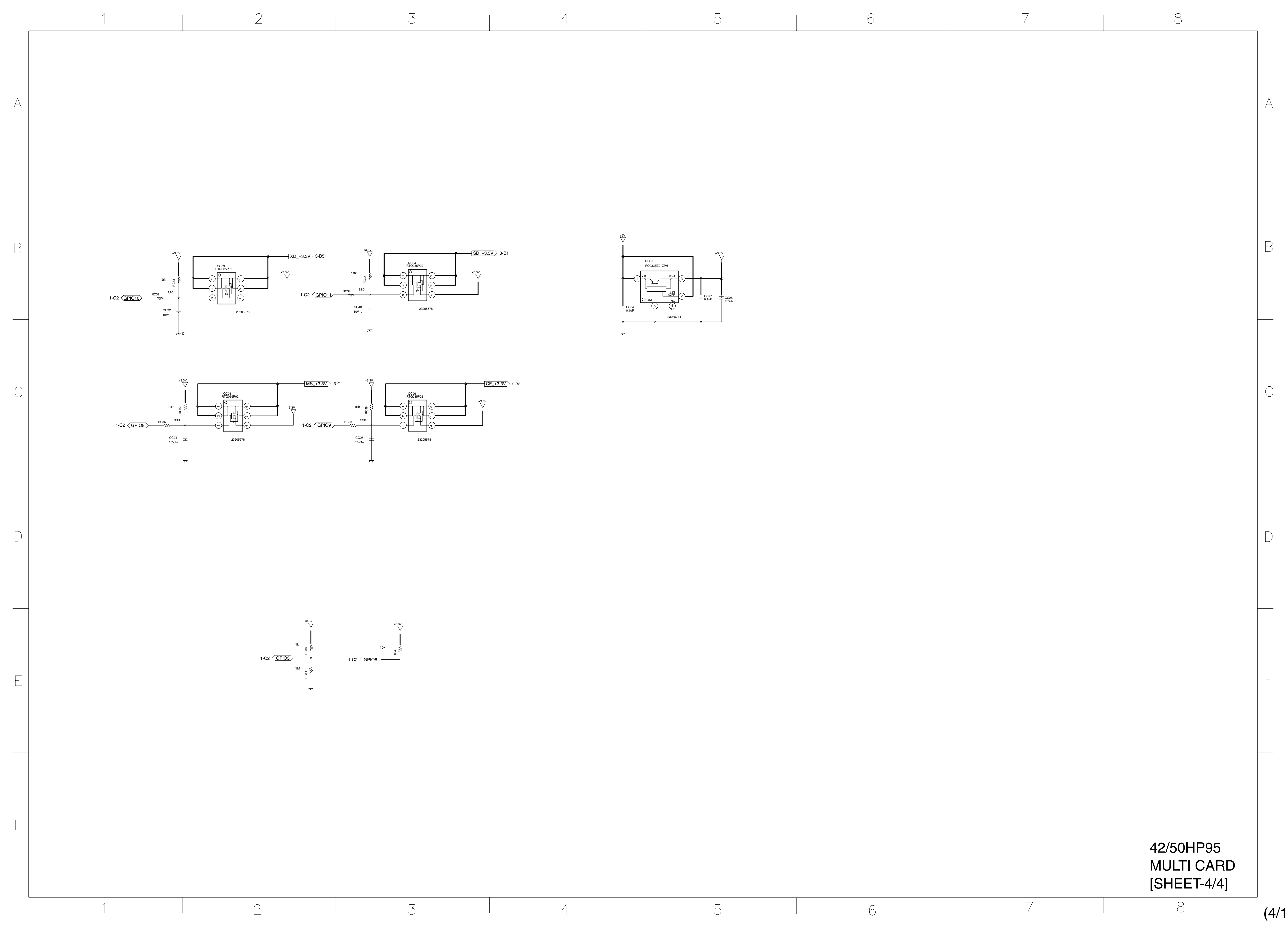
CFH050-C7-1180



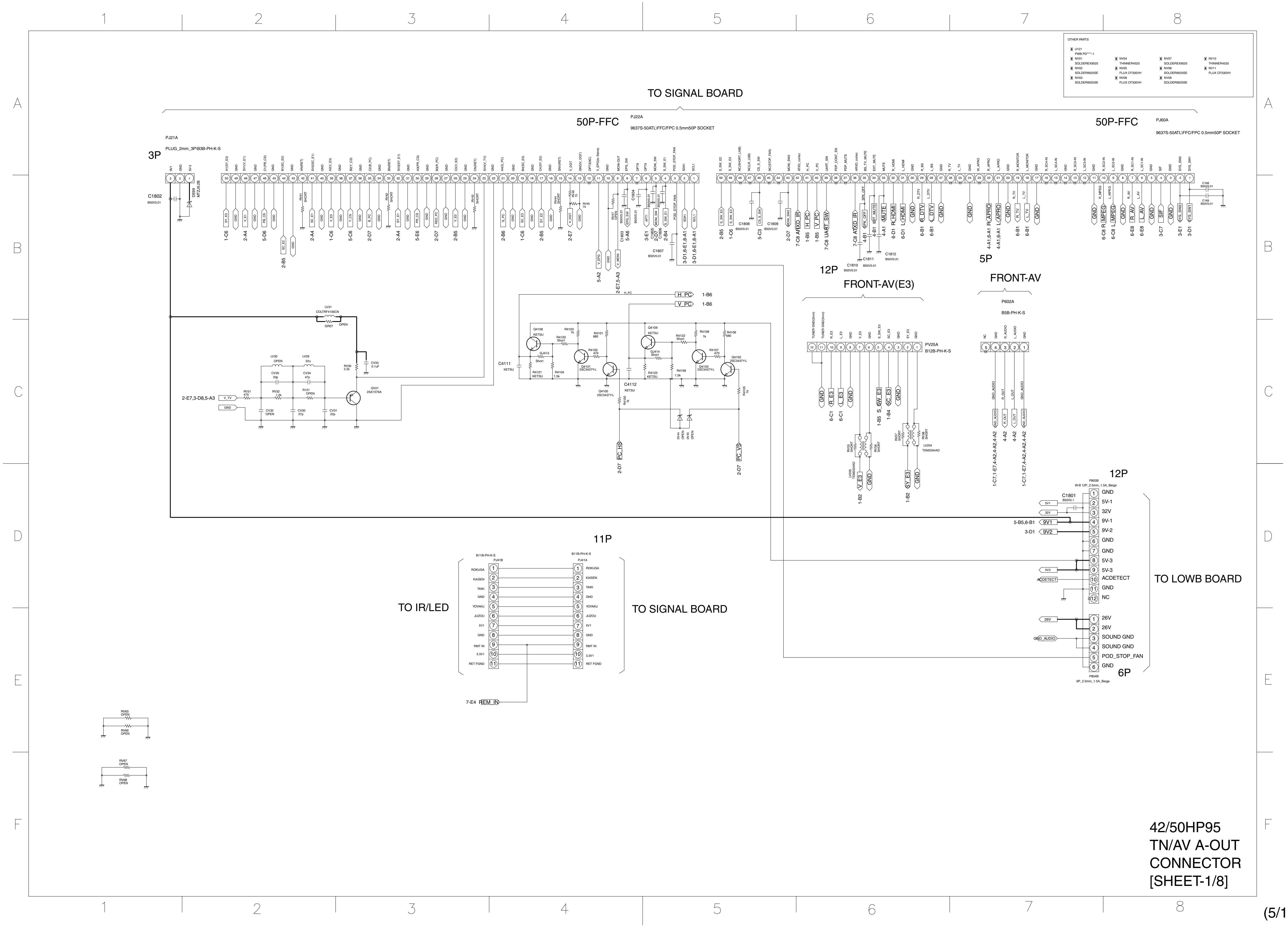
42/50HP95
MULTI CARD
[SHEET-24]



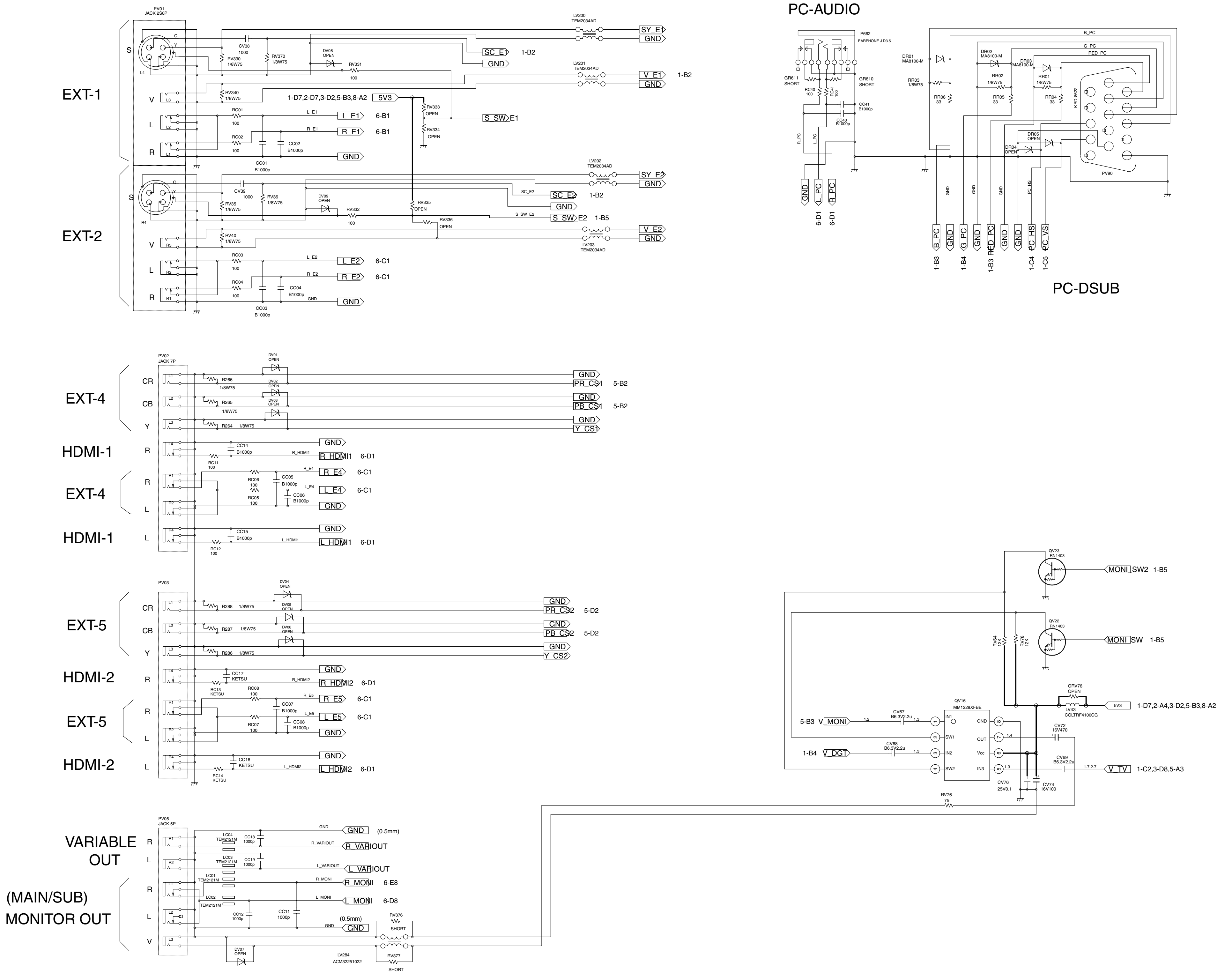
42/50HP95
MULTI CARD
[SHEET-3/4]



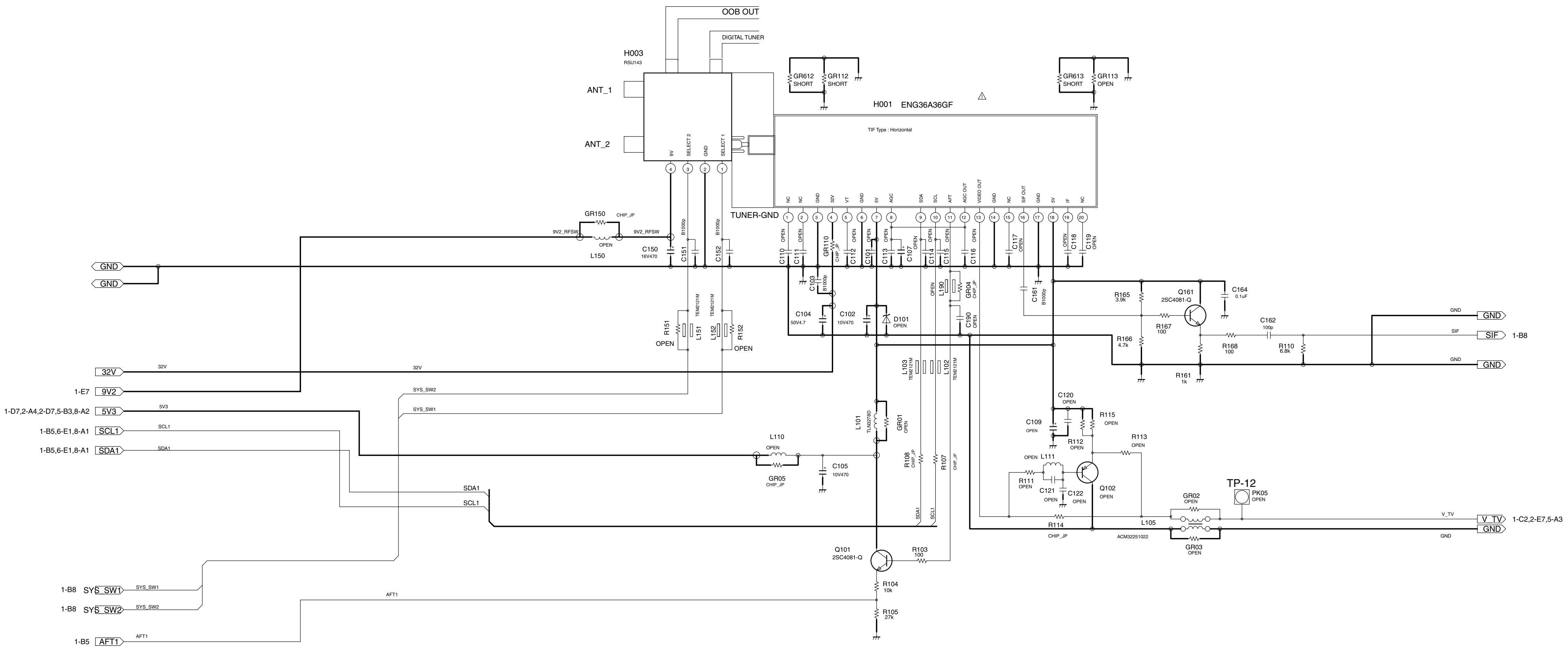
42/50HP95
MULTI CARD
[SHEET-4/4]



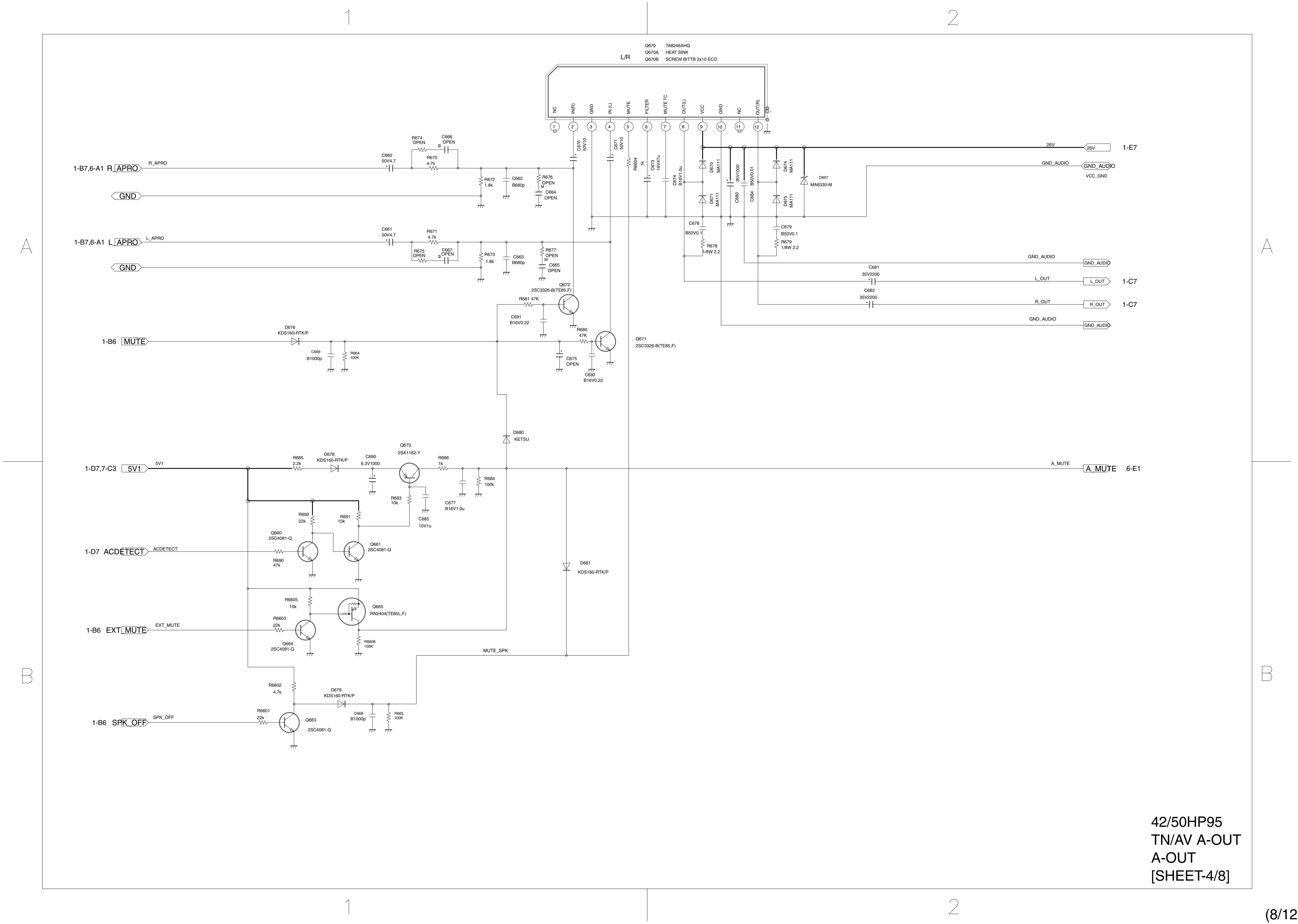
42/50HP95
TN/AV A-OUT
CONNECTOR
[SHEET-1/8]



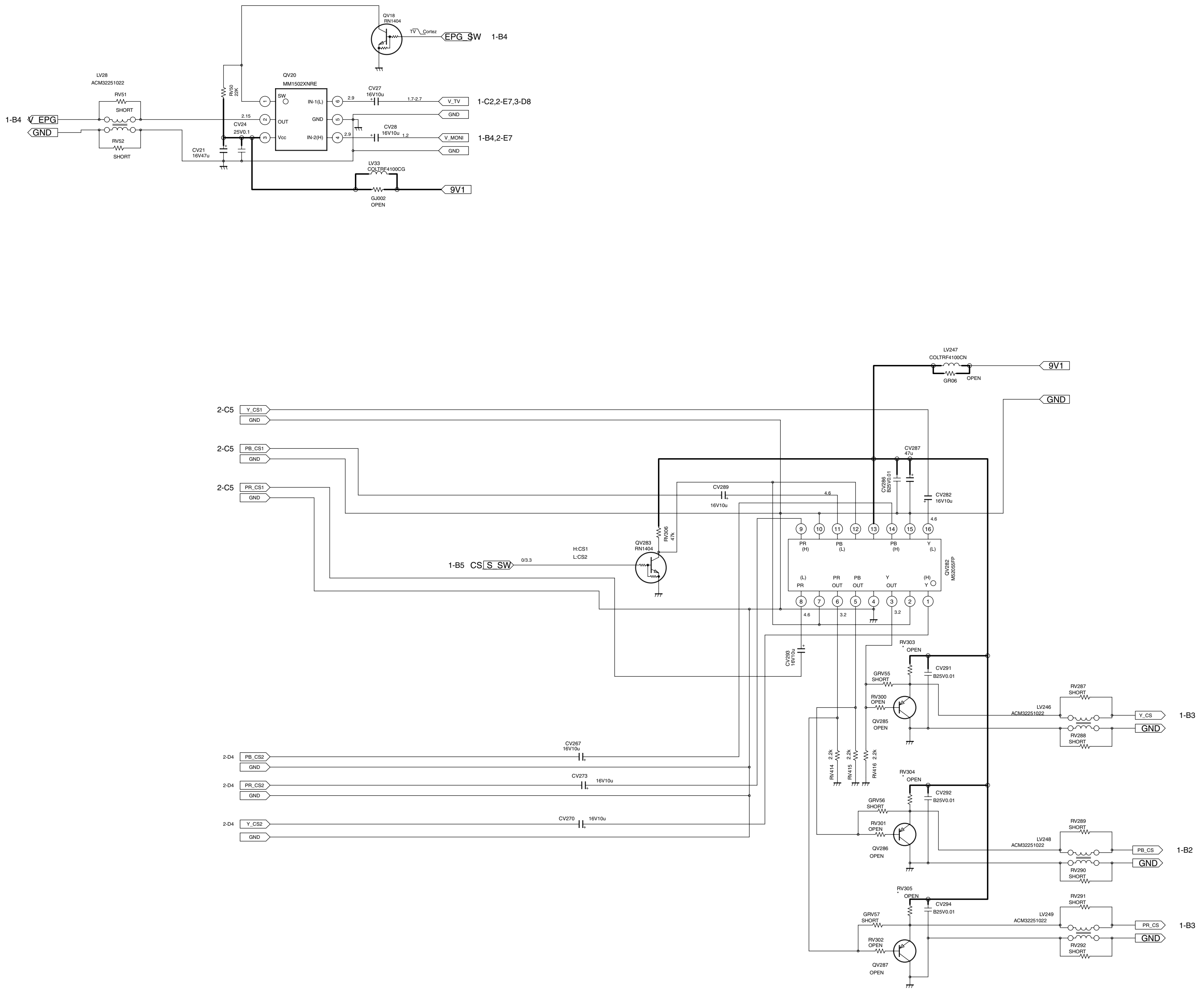
42/50HP95
TN/AV A-OUT
AV TERMINAL
[SHEET-2/8]



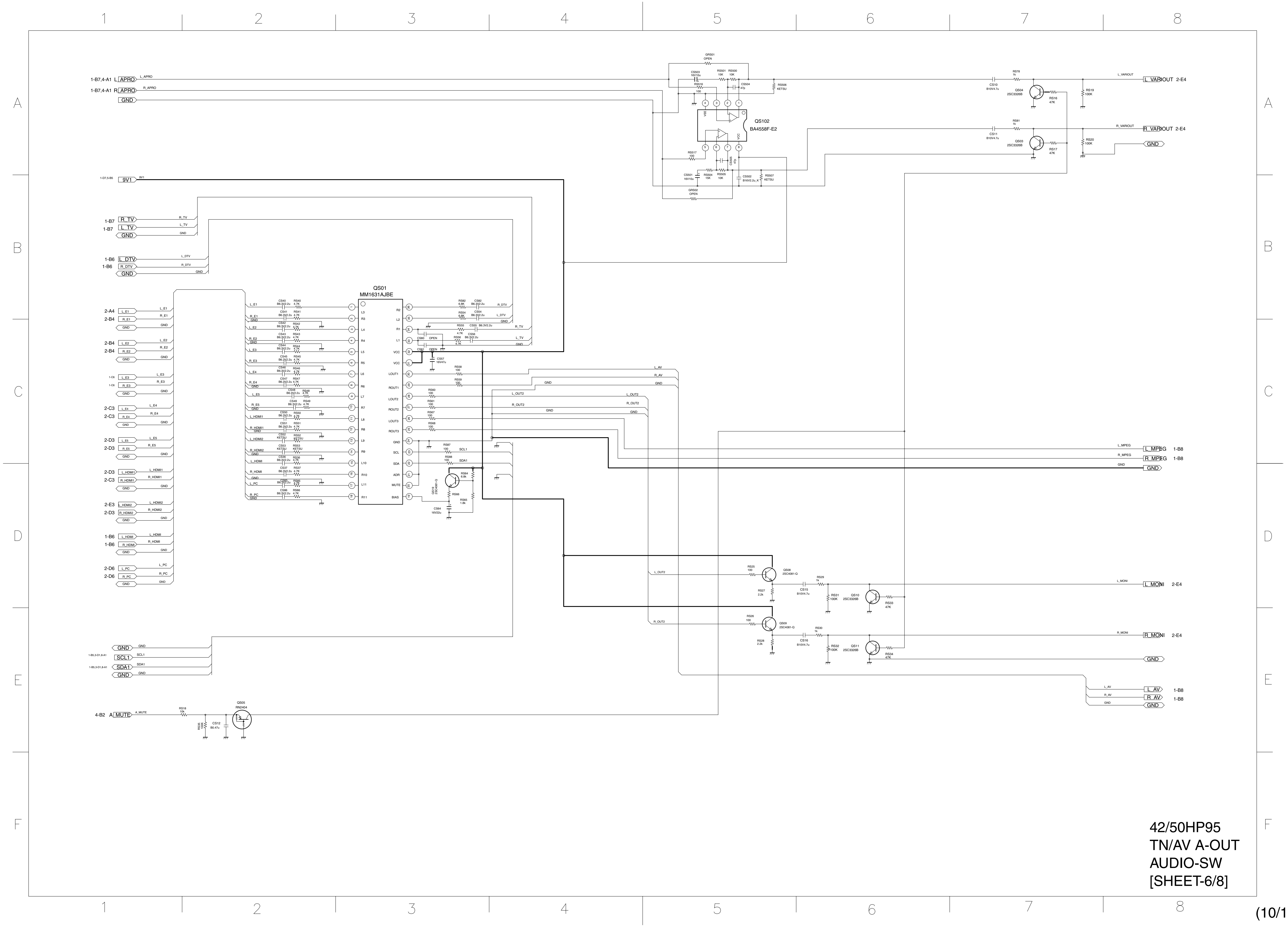
42/50HP95
TN/AV A-OUT
RF-SW&TIF
[SHEET-3/8]



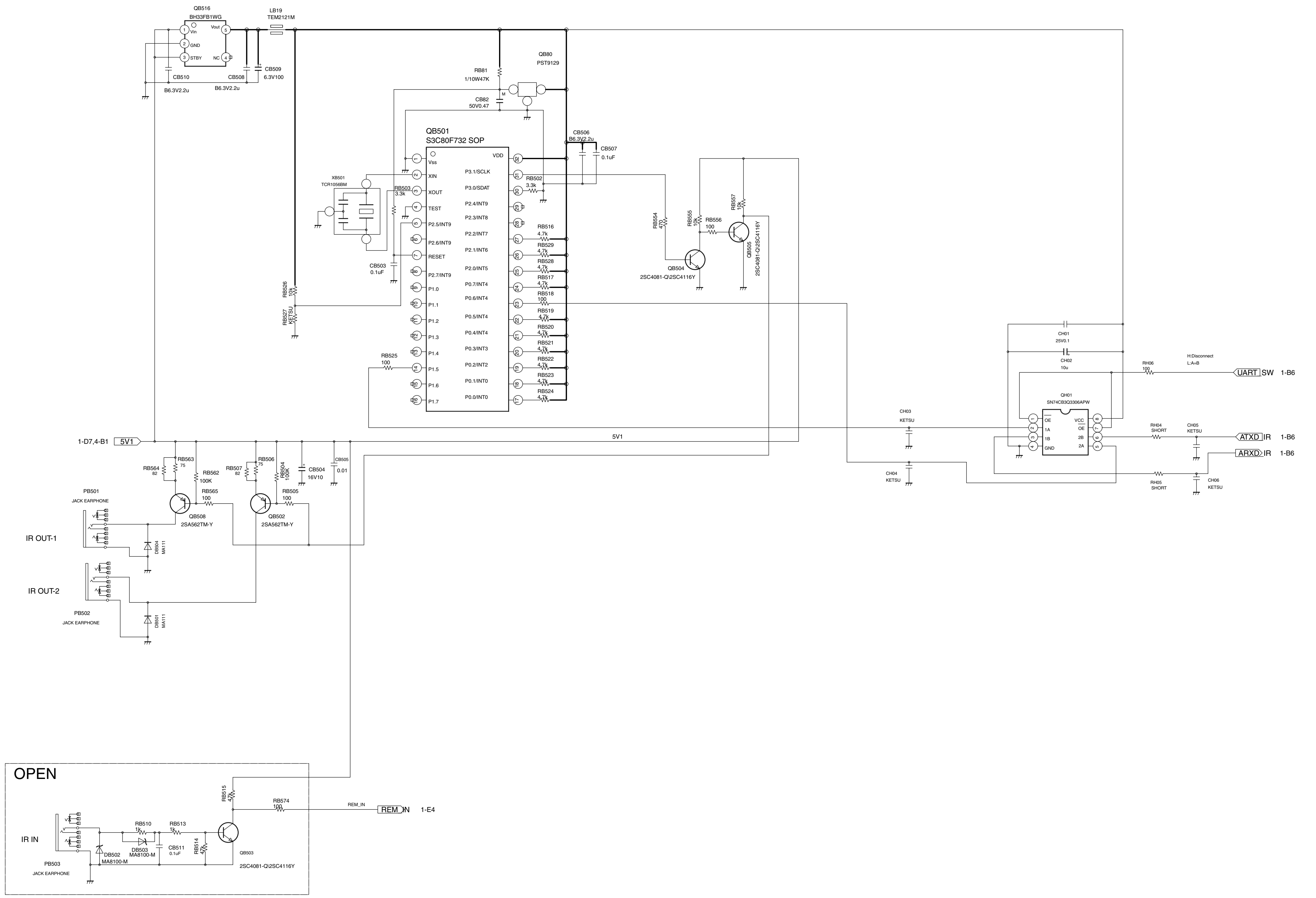
42/50HP95
TN/AV A-OUT
A-OUT
[SHEET-4/8]



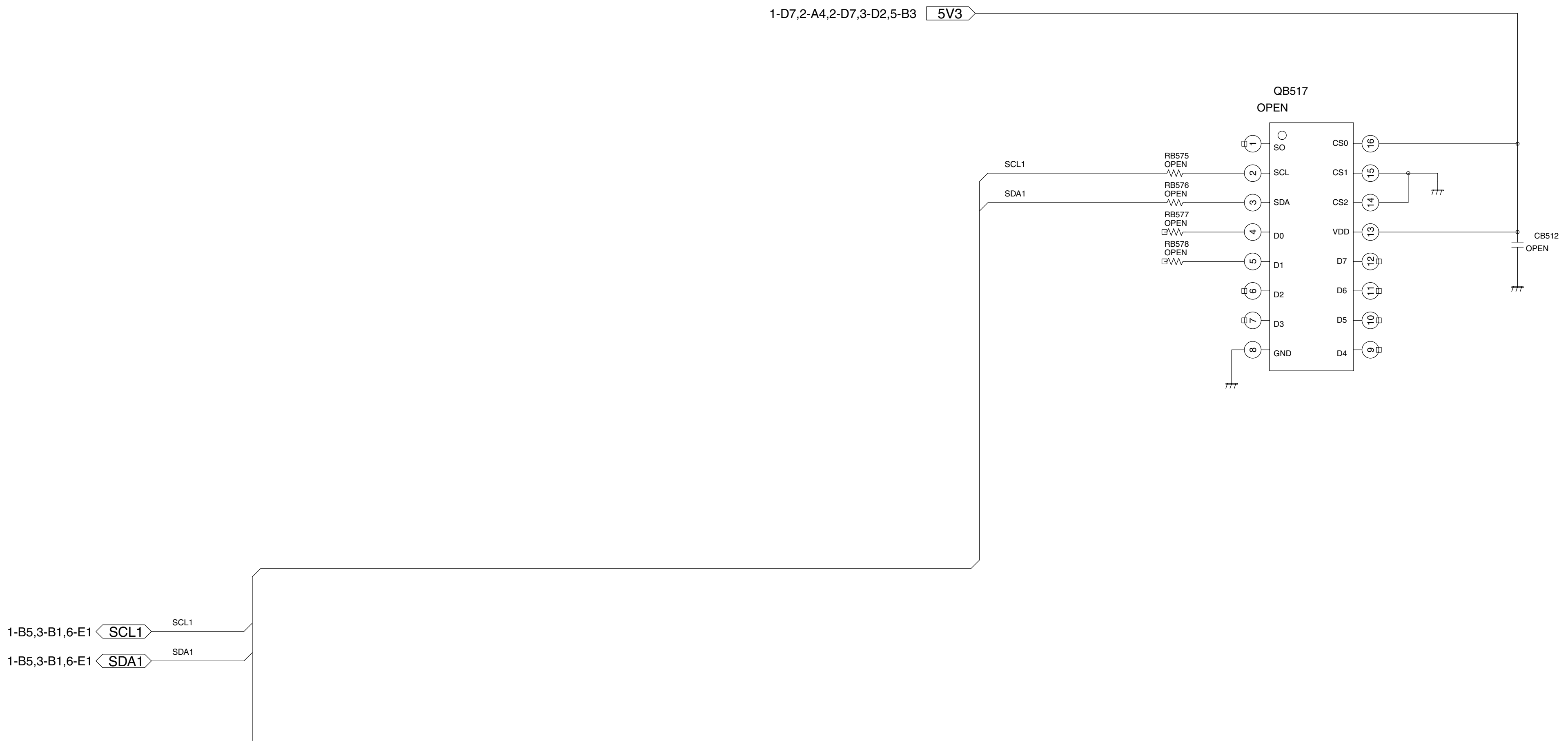
42/50HP95
TN/AV A-OUT
VIDEO-SW
[SHEET-5/8]



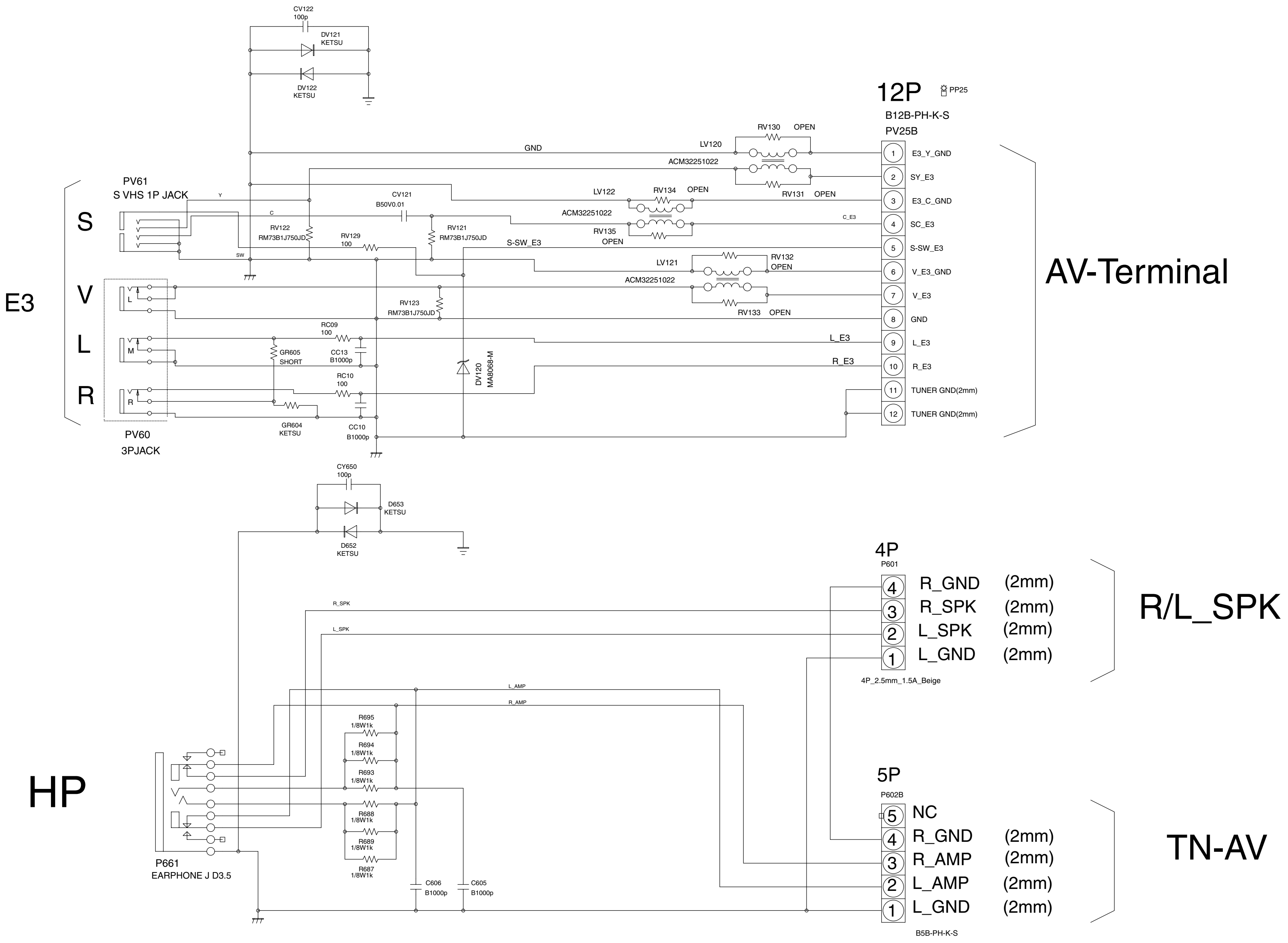
42/50HP95
TN/AV A-OUT
AUDIO-SW
[SHEET-6/8]



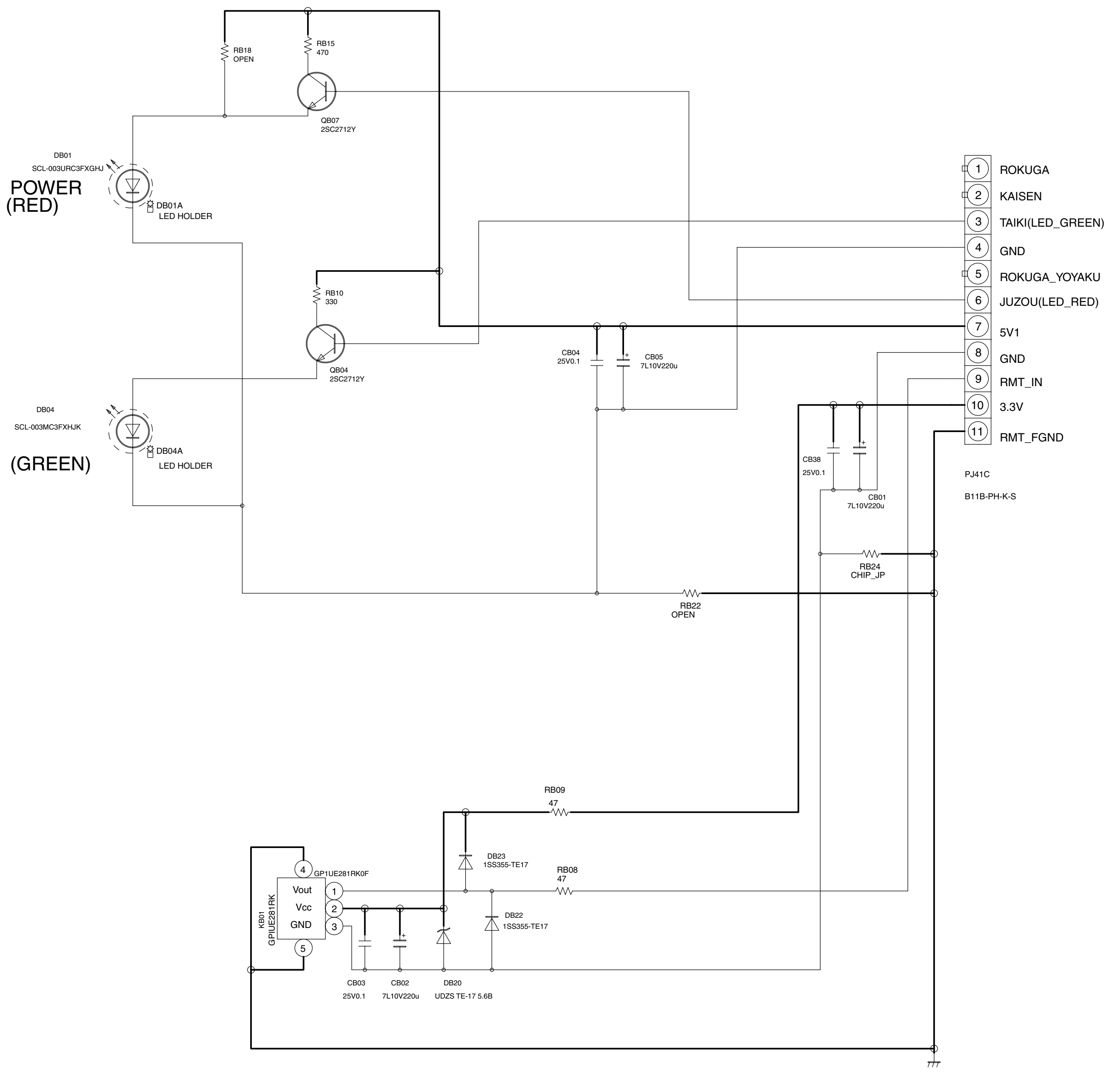
42/50HP95
TN/AV A-OUT
IR-MICON
[SHEET-7/8]



42/50HP95
TN/AV A-OUT
EXPANDER FOR PDP
[SHEET-8/8]



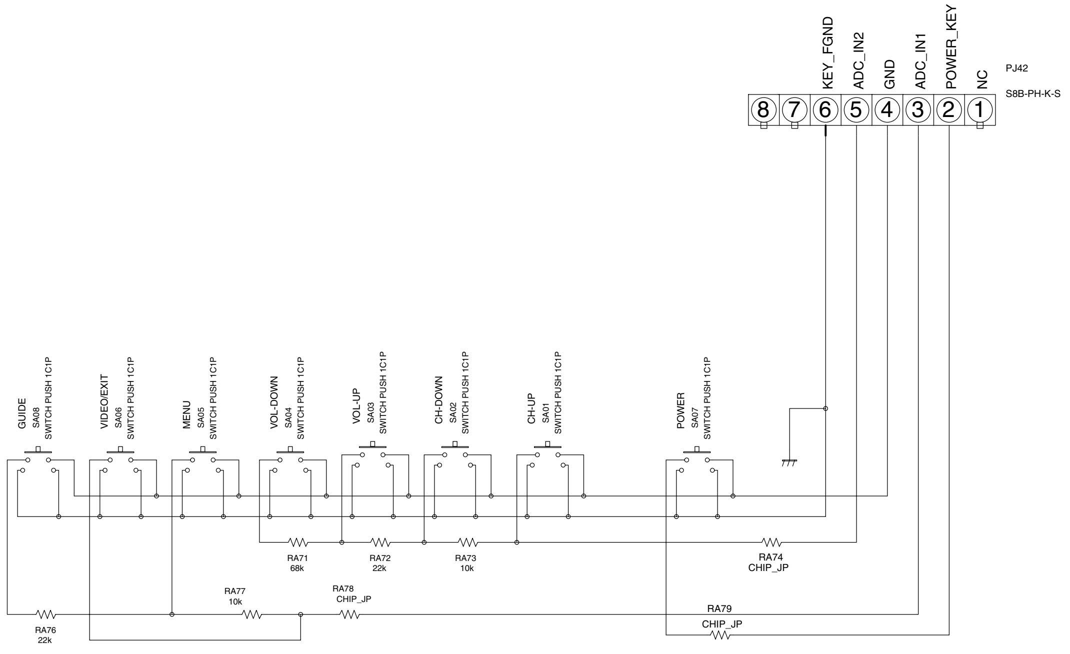
42/50HP95
FRONT-AV

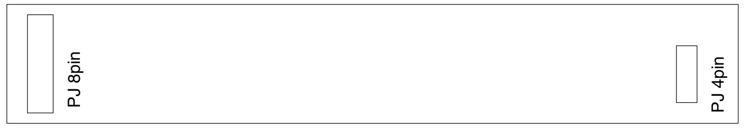


42/50HP95
IR LED

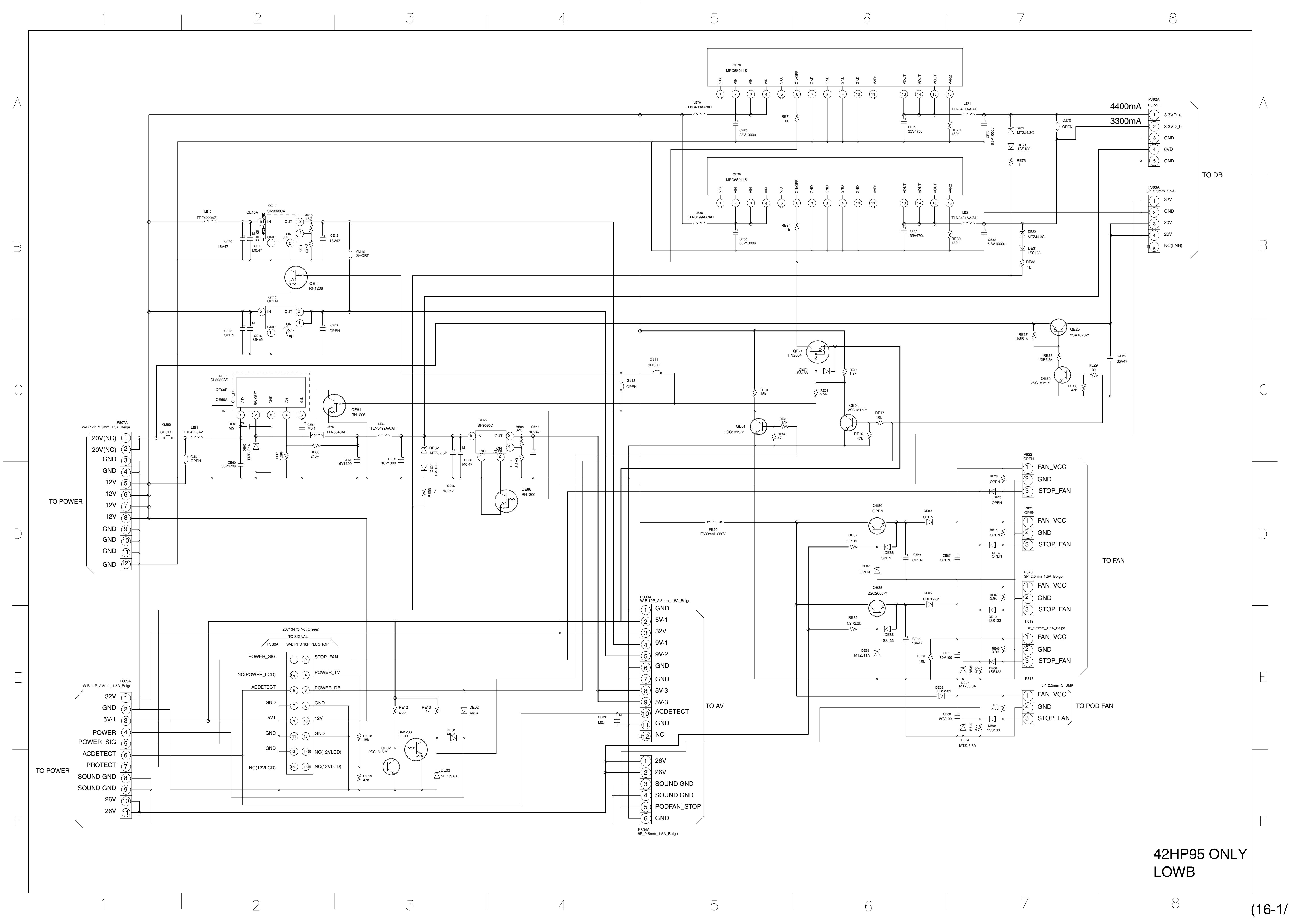
OTHER PARTS

⚹ U123
PWB PD****-3

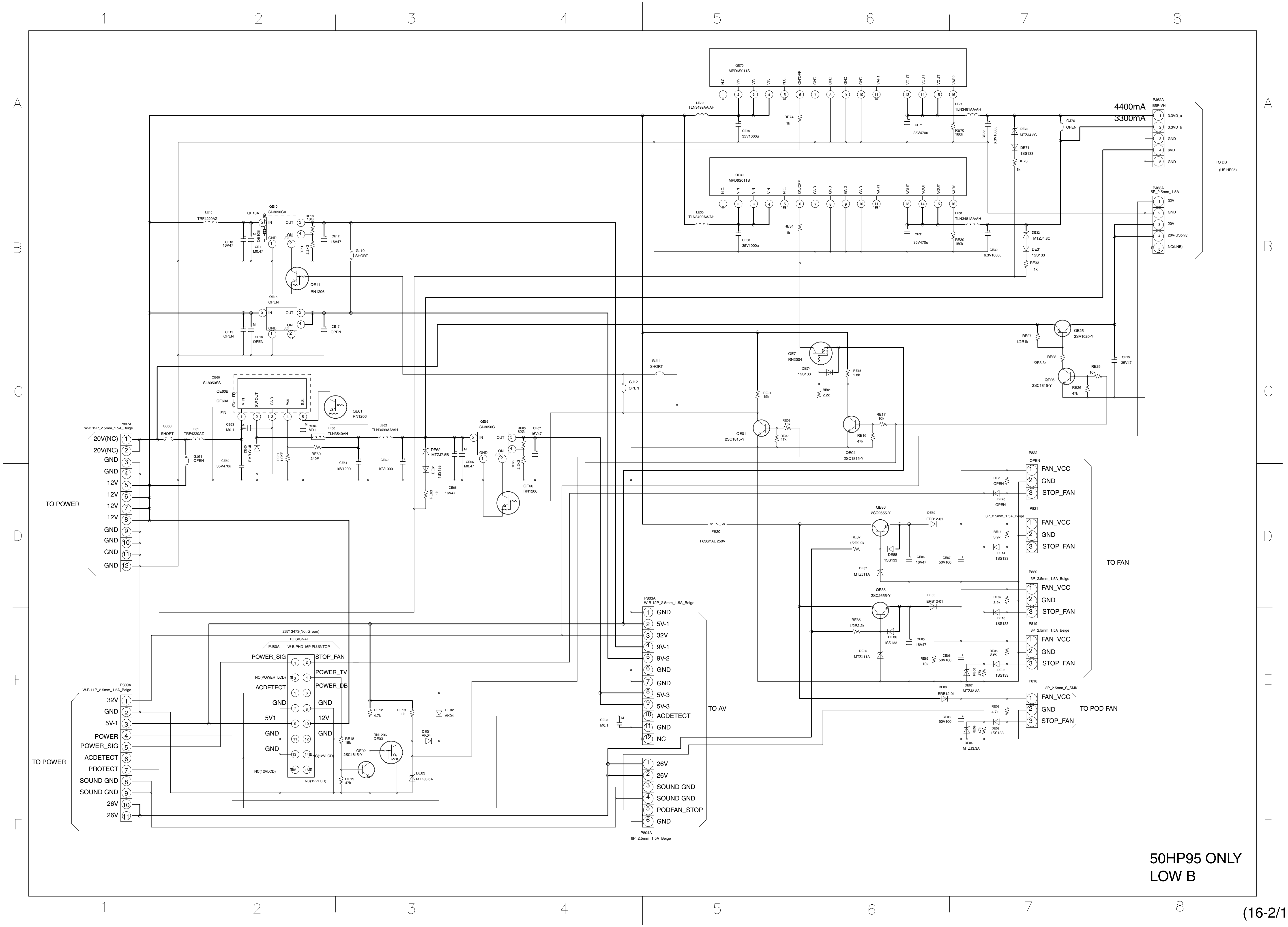




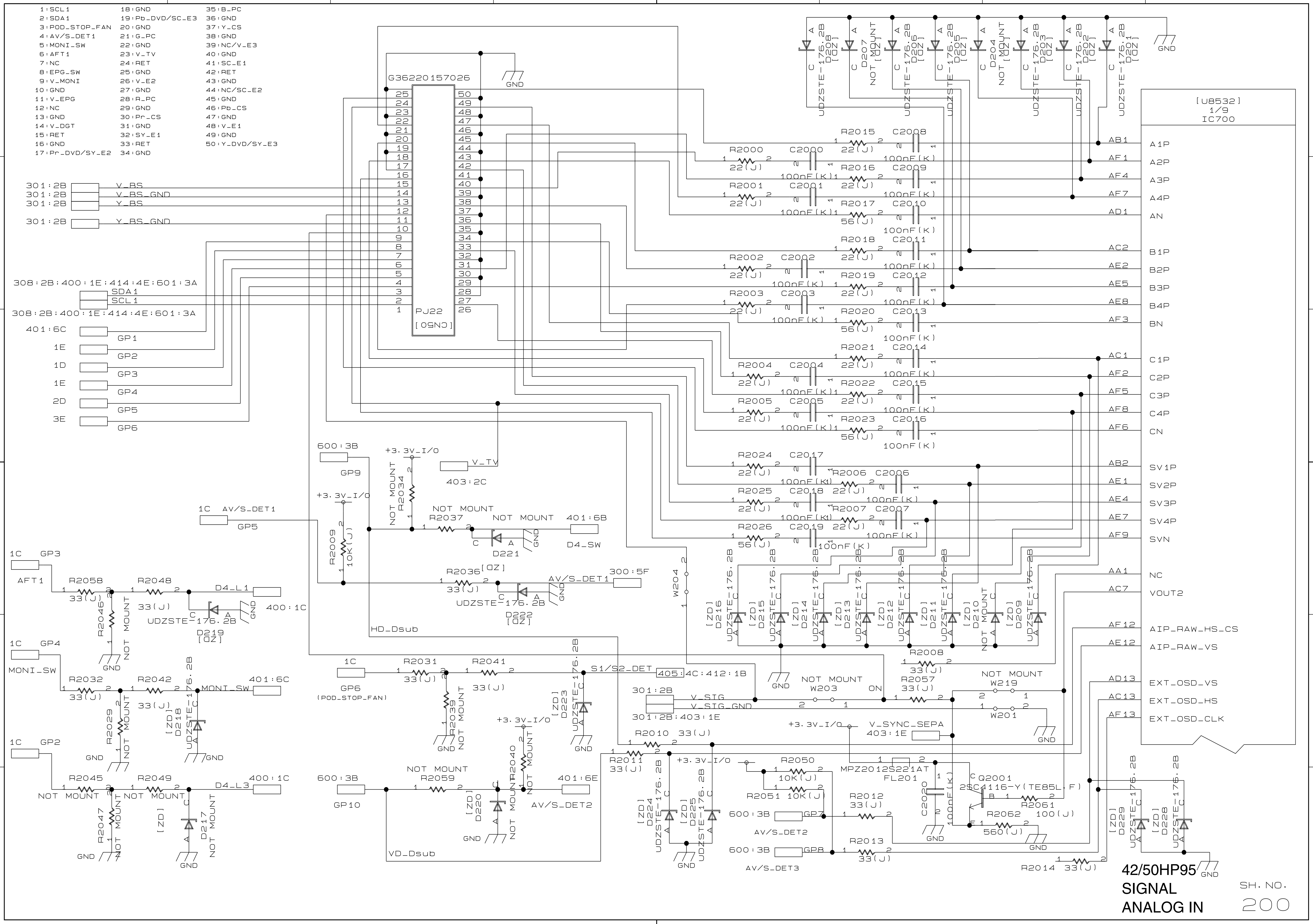
42/50HP95
KEY



42HP95 ONLY
LOWB

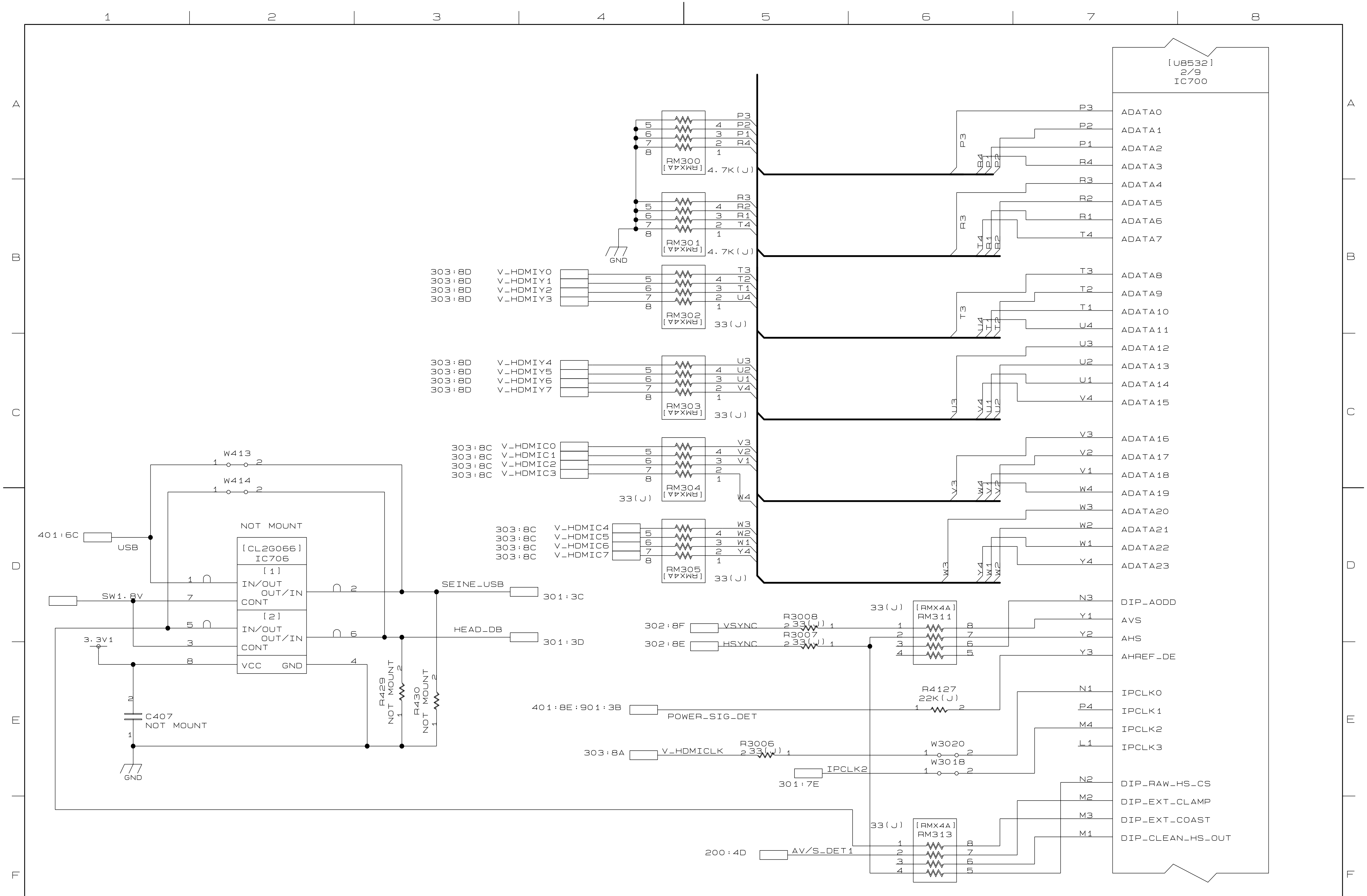


50HP95 ONLY
LOW B



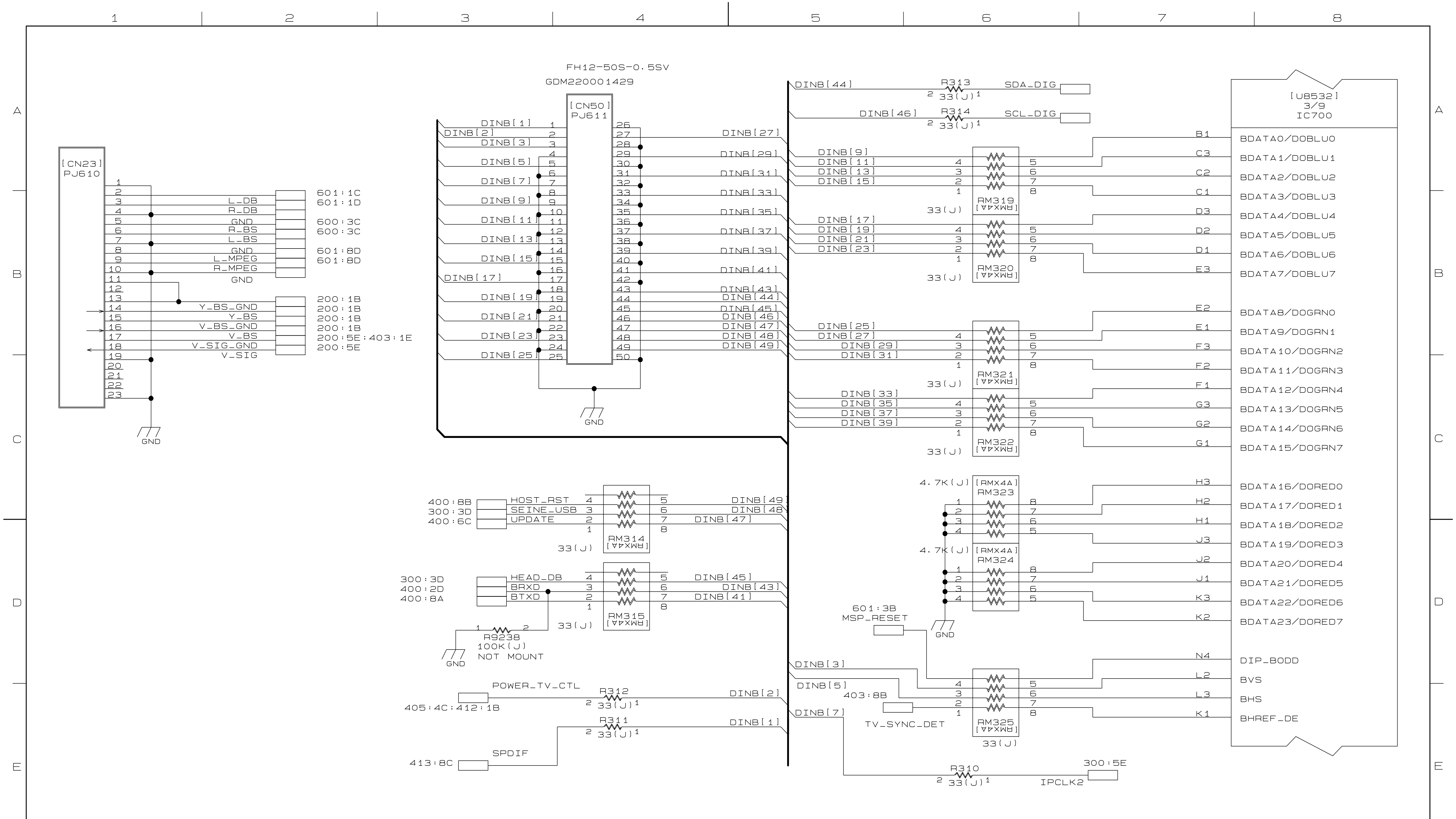
42/50HP95
SIGNAL
ANALOG IN

SH. NO.
200

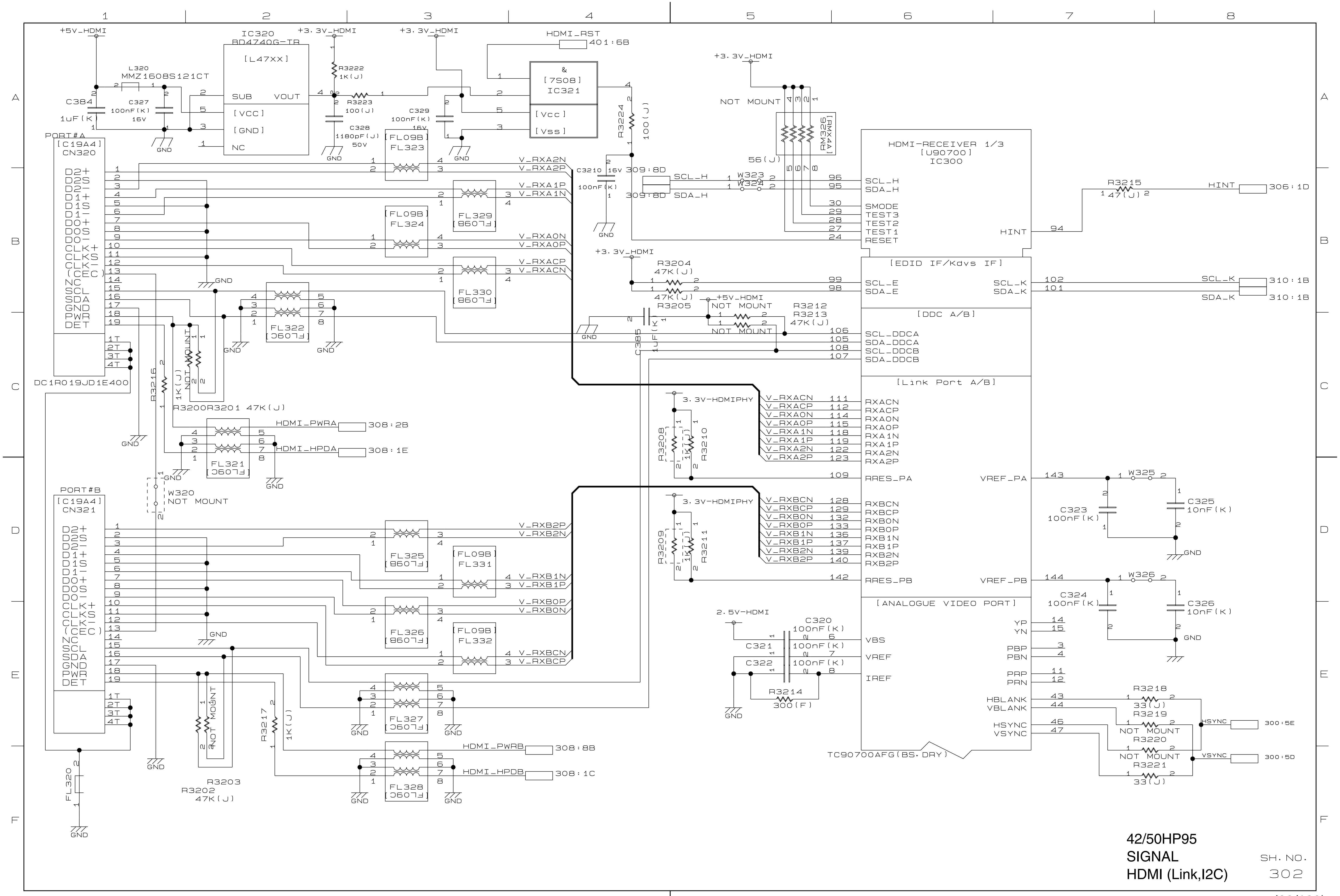


42/50HP95
SIGNAL
D IN A

SH. NO.
300

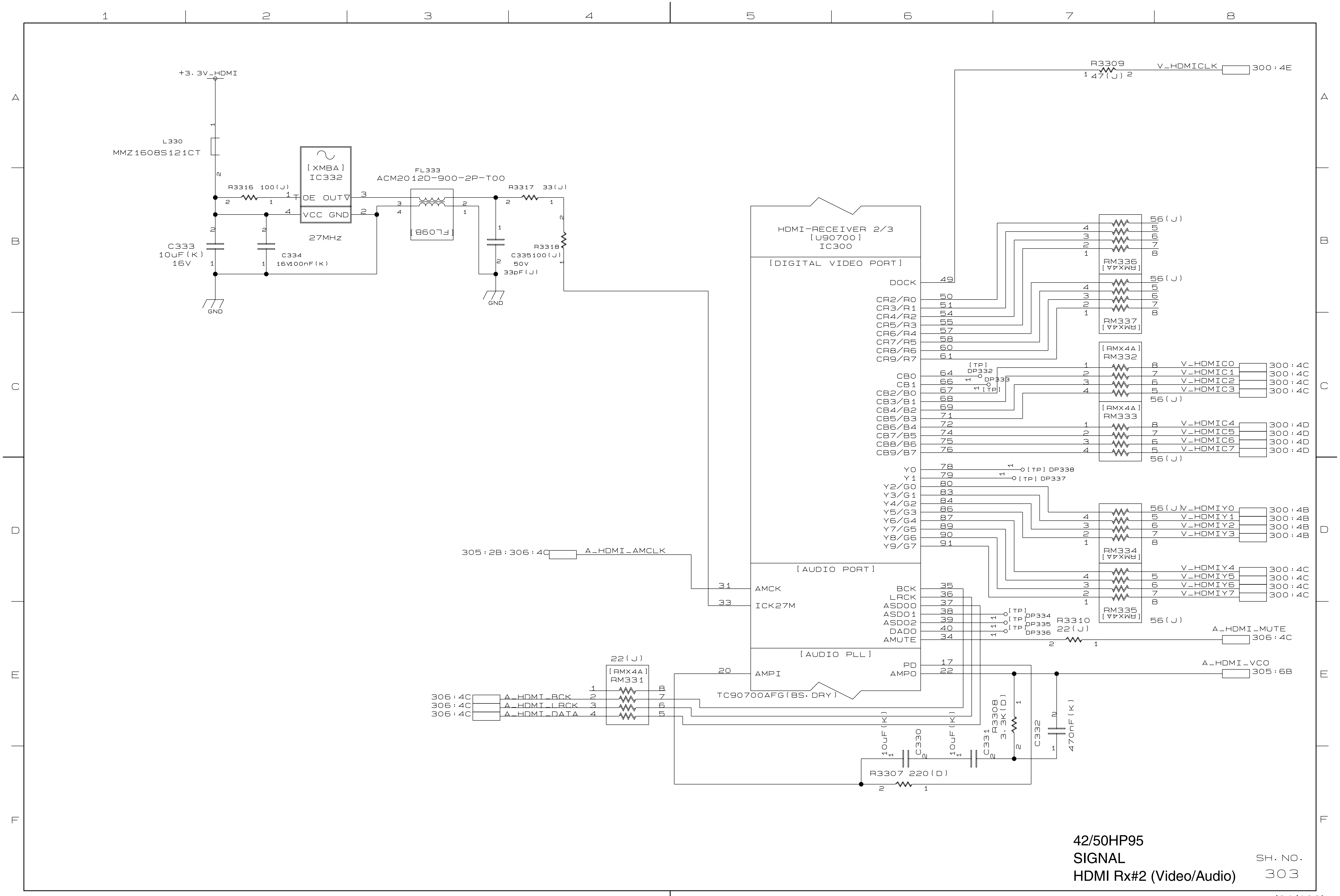


42/50HP95
SIGNAL
D IN B
SH. NO.
301



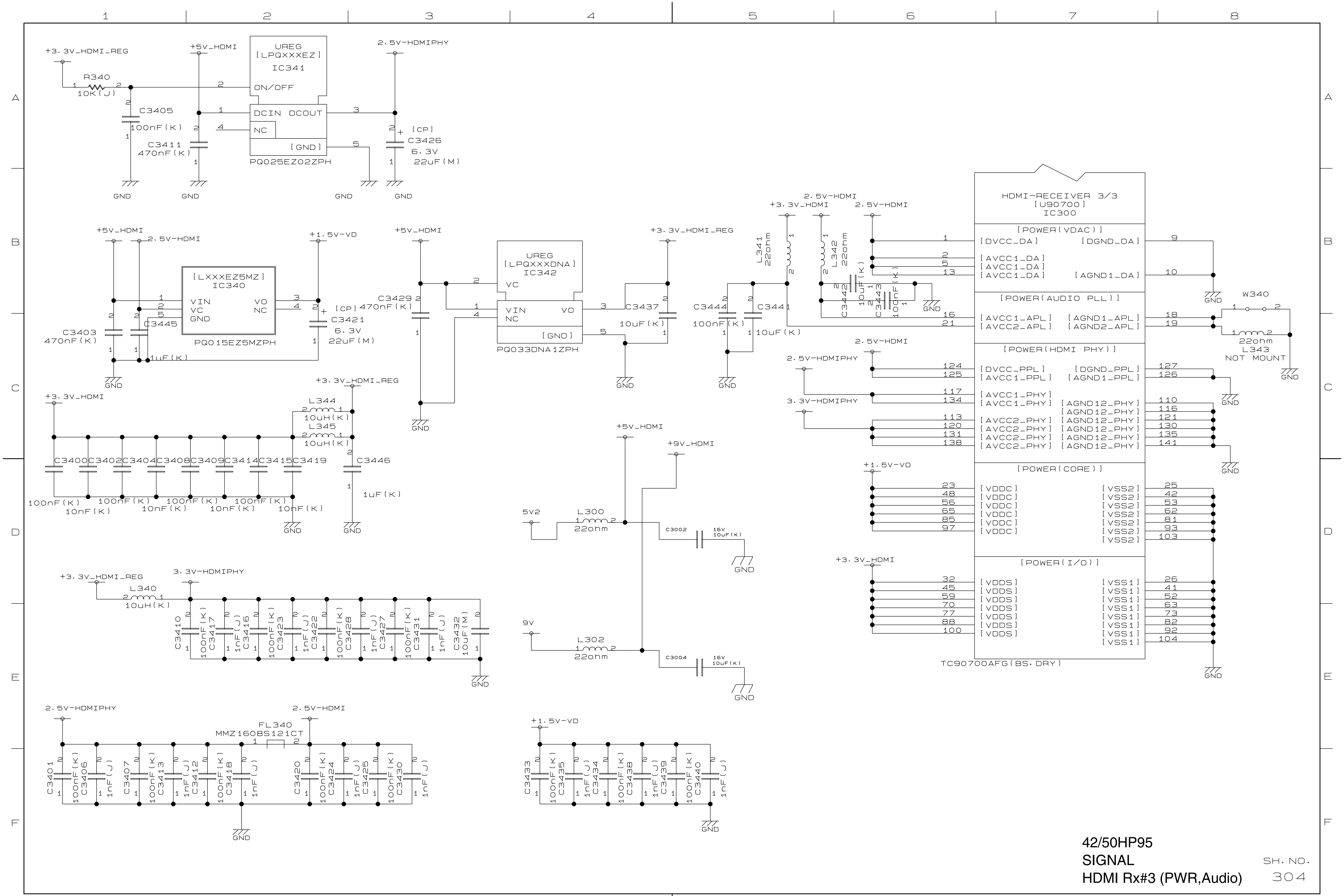
42/50HP95
SIGNAL
HDMI (Link,I2C)

SH. NO.
302



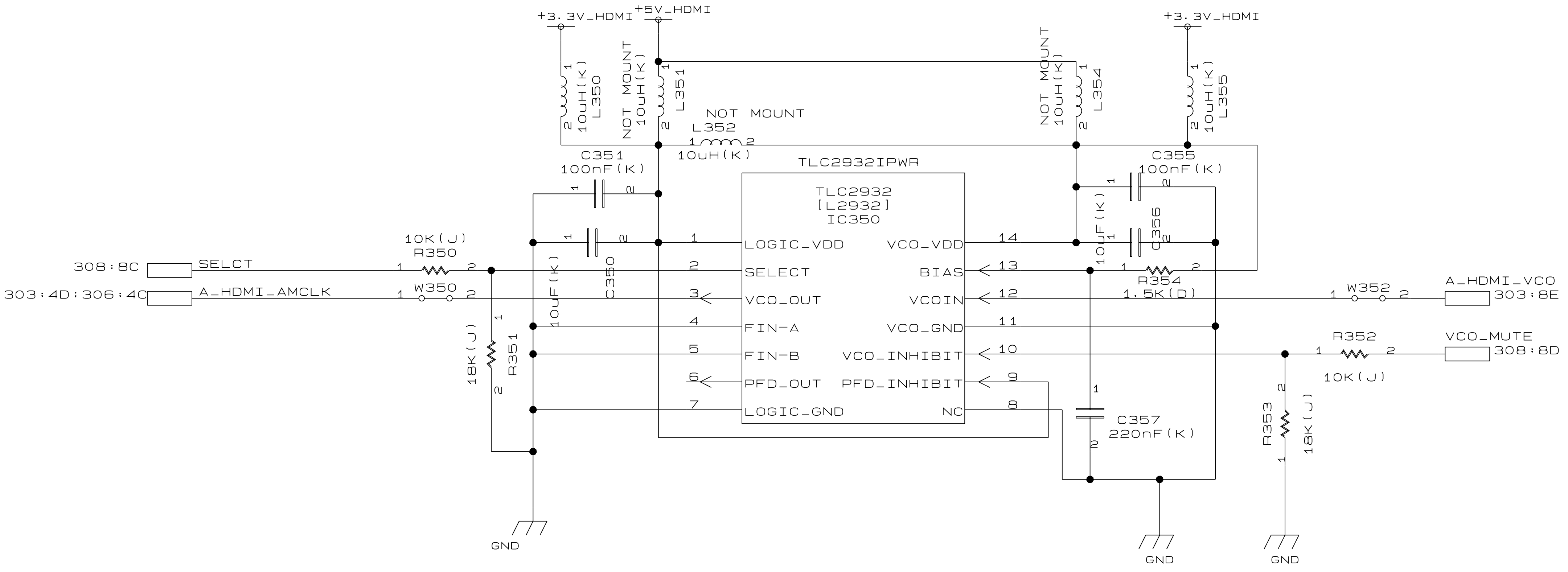
42/50HP95
SIGNAL
HDMI Rx#2 (Video/Audio)

SH. NO.
303



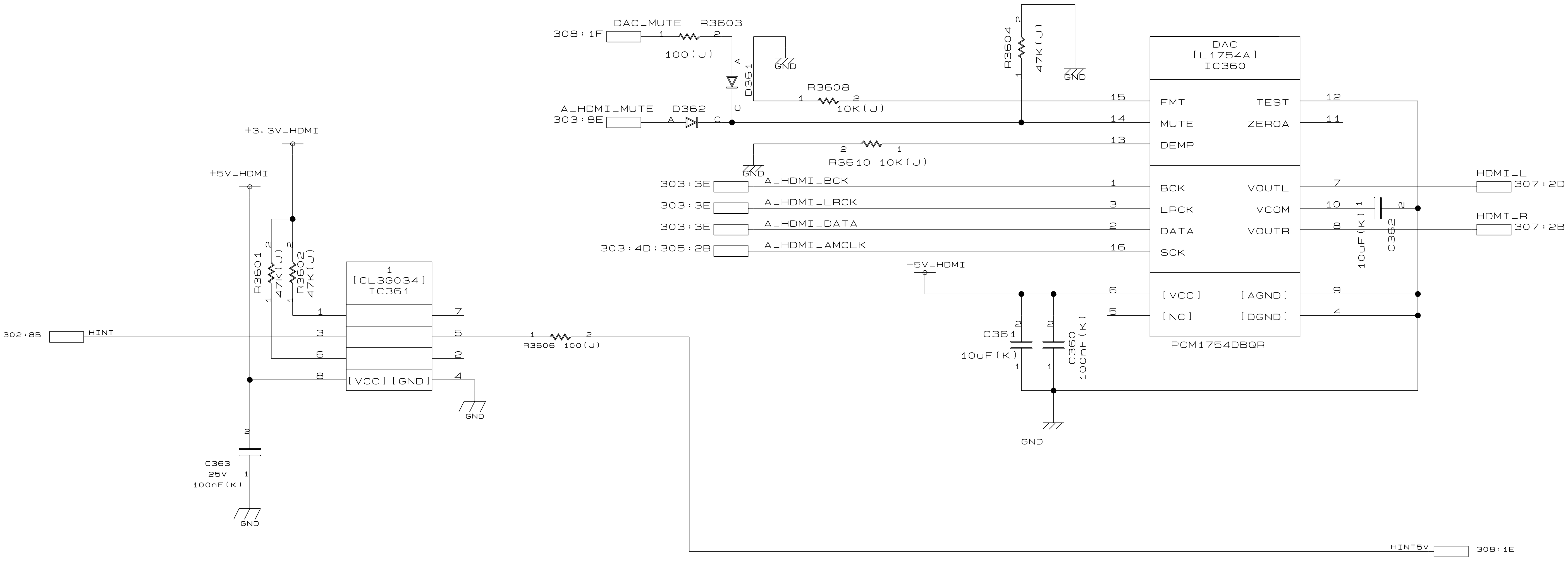
42/50HP95
SIGNAL
HDMI Rx#3 (PWR,Audio)

SH. NO.
304



42/50HP95
SIGNAL
HDMI AUDIO PLL

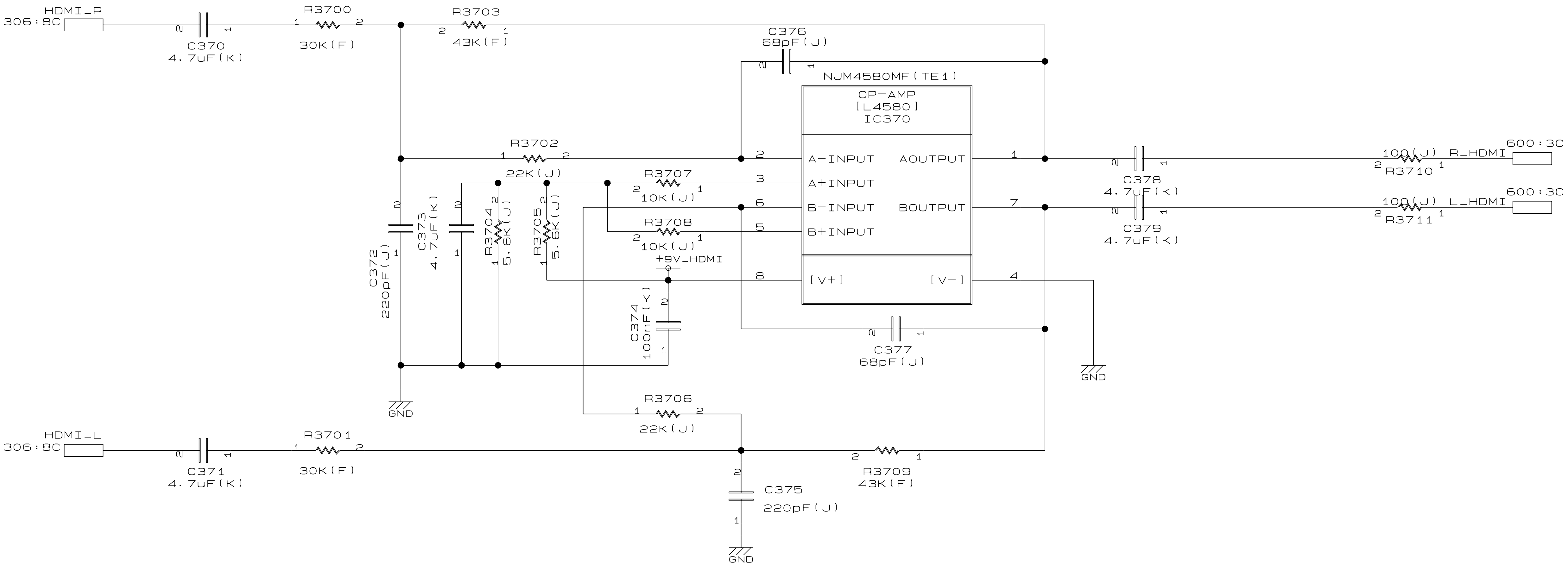
SH. NO.
305



42/50HP95
SIGNAL
HDMI AUDIO DAC

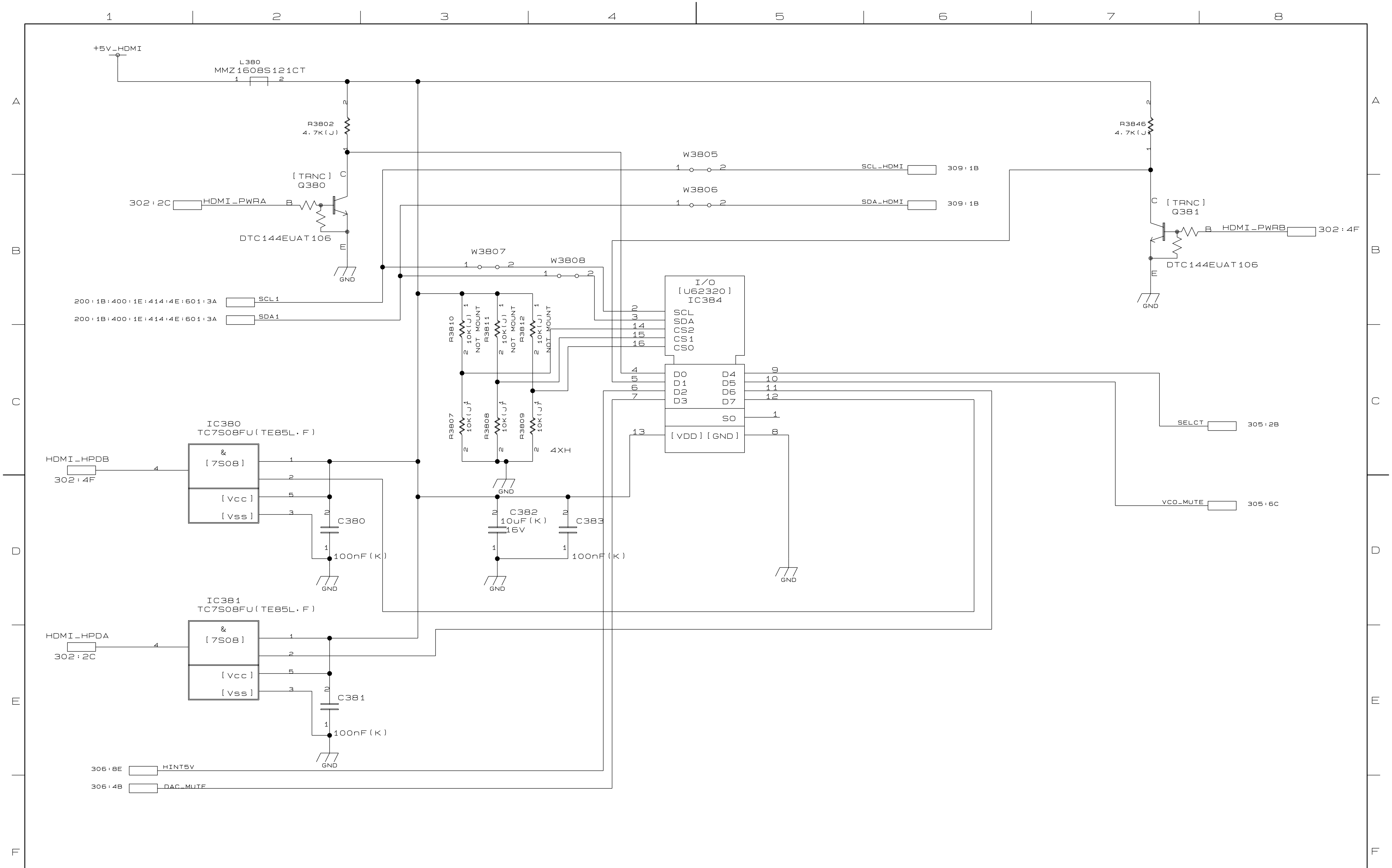
SH. NO.
306

(24/129)



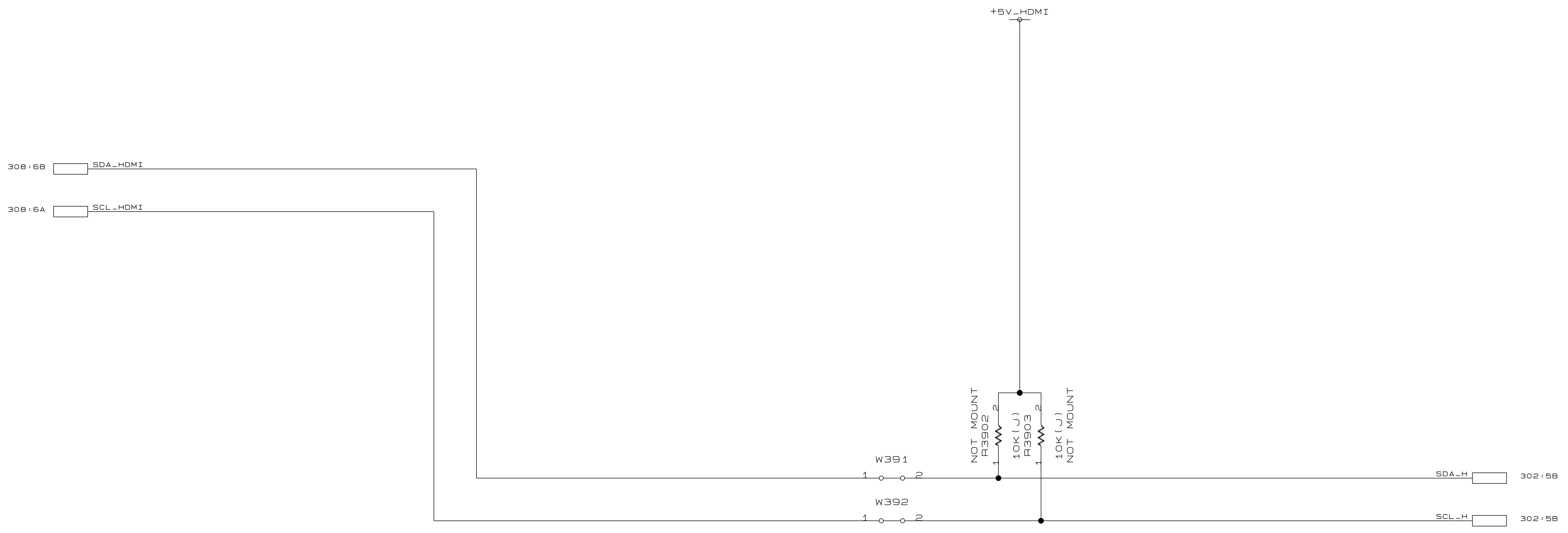
42/50HP95
SIGNAL
HDMI AUDIO OUT

SH. NO.
307



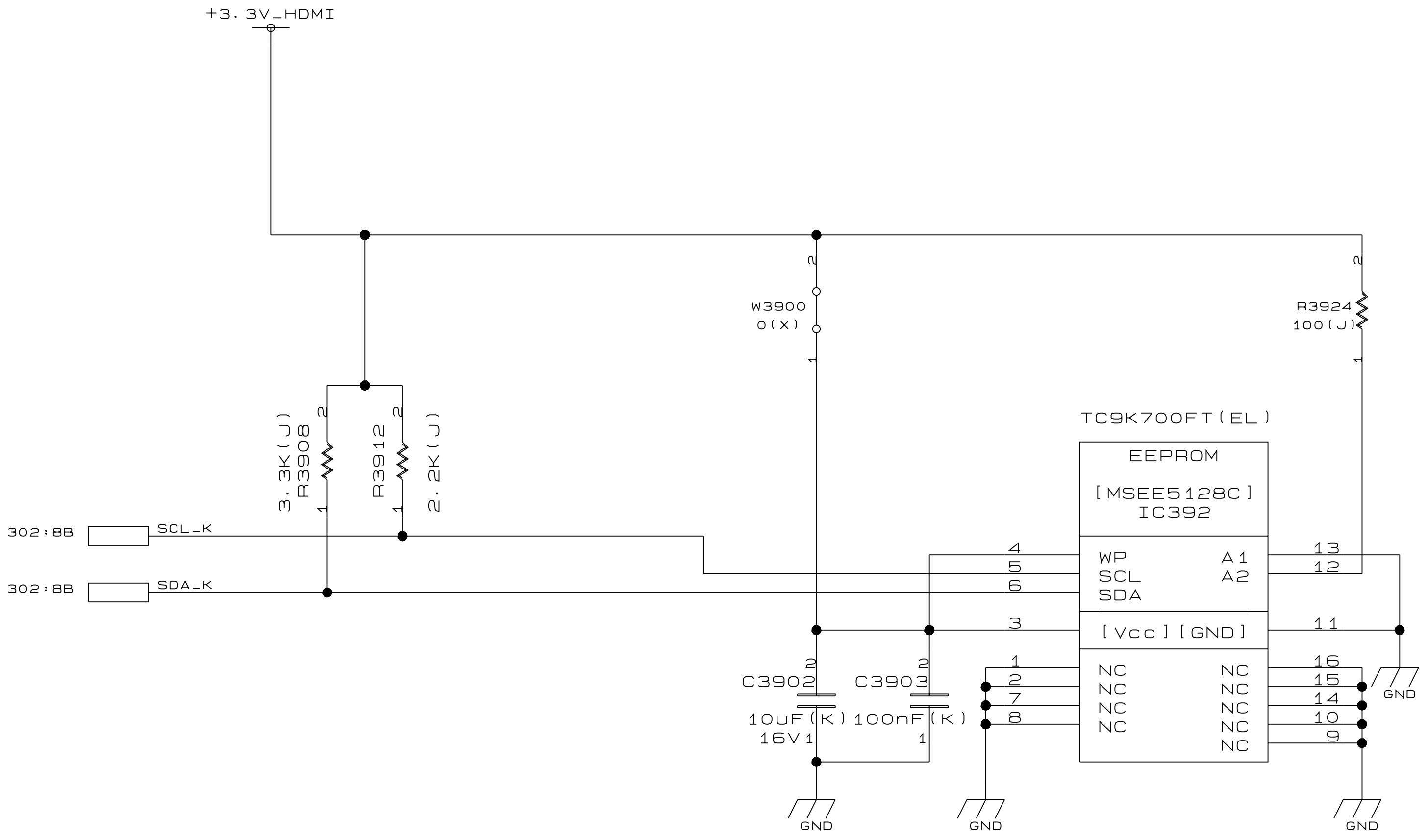
42/50HP95
SIGNAL
HDMI CONTROLLER

SH. NO.
308



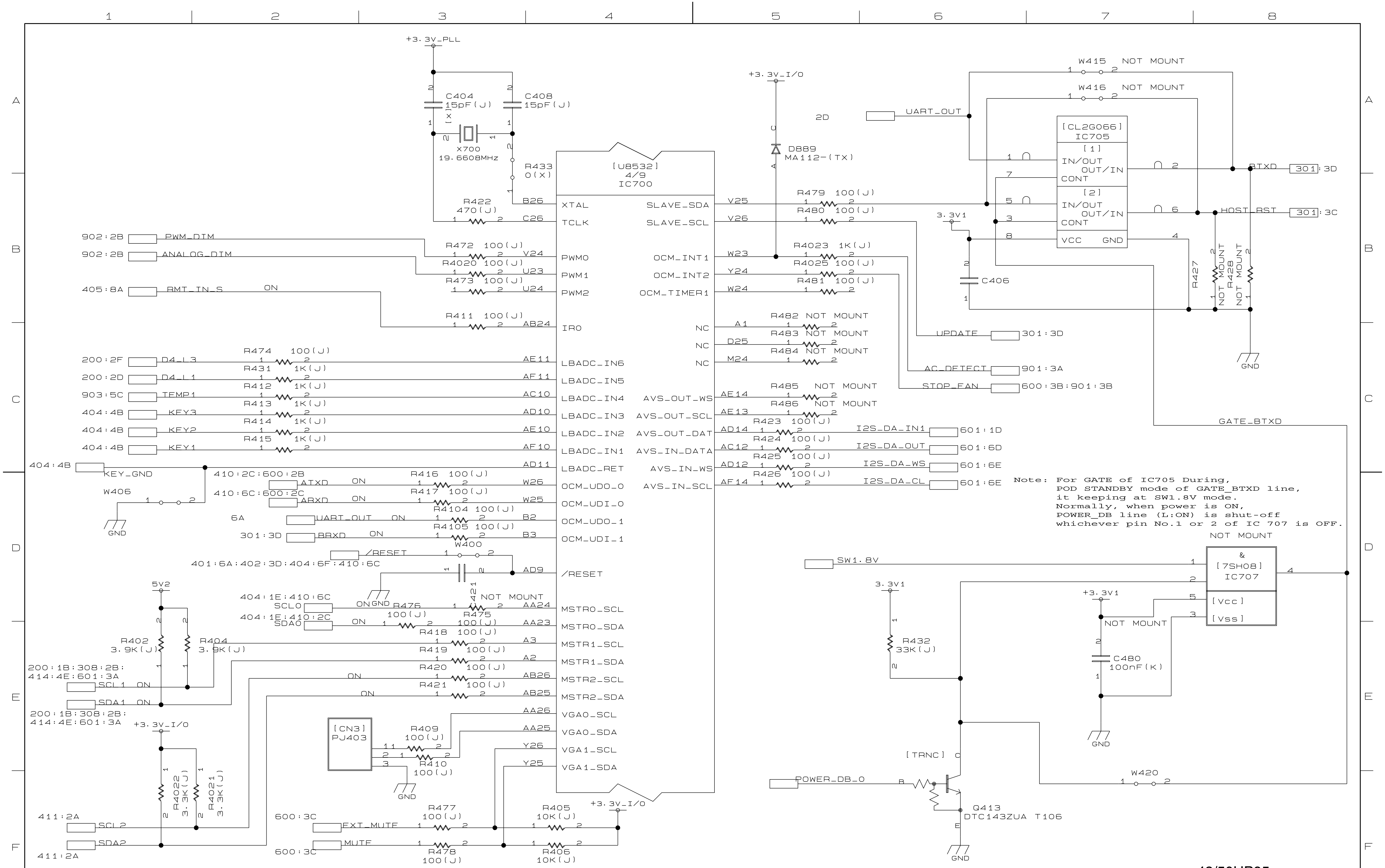
42/50HP95
SIGNAL
EEPROM1

SH. NO.
309



42/50HP95
SIGNAL
EEPROM2

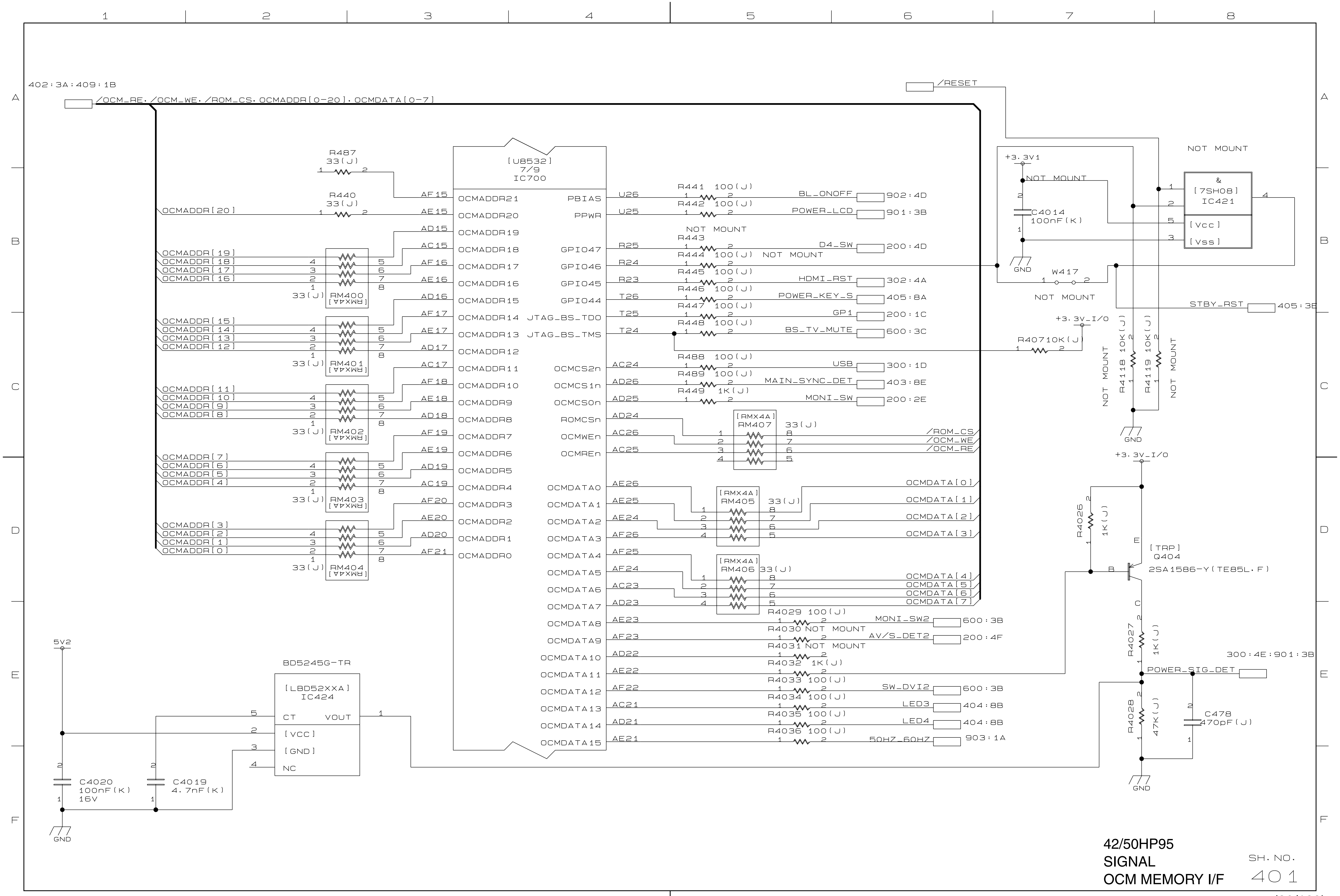
SH. NO.
310



Note: For GATE of IC705 During,
POD STANDBY mode of GATE_BTXD line,
it keeping at SW1.8V mode.
Normally, when power is ON,
POWER_DB line (L:ON) is shut-off
whichever pin No.1 or 2 of IC 707 is OFF.

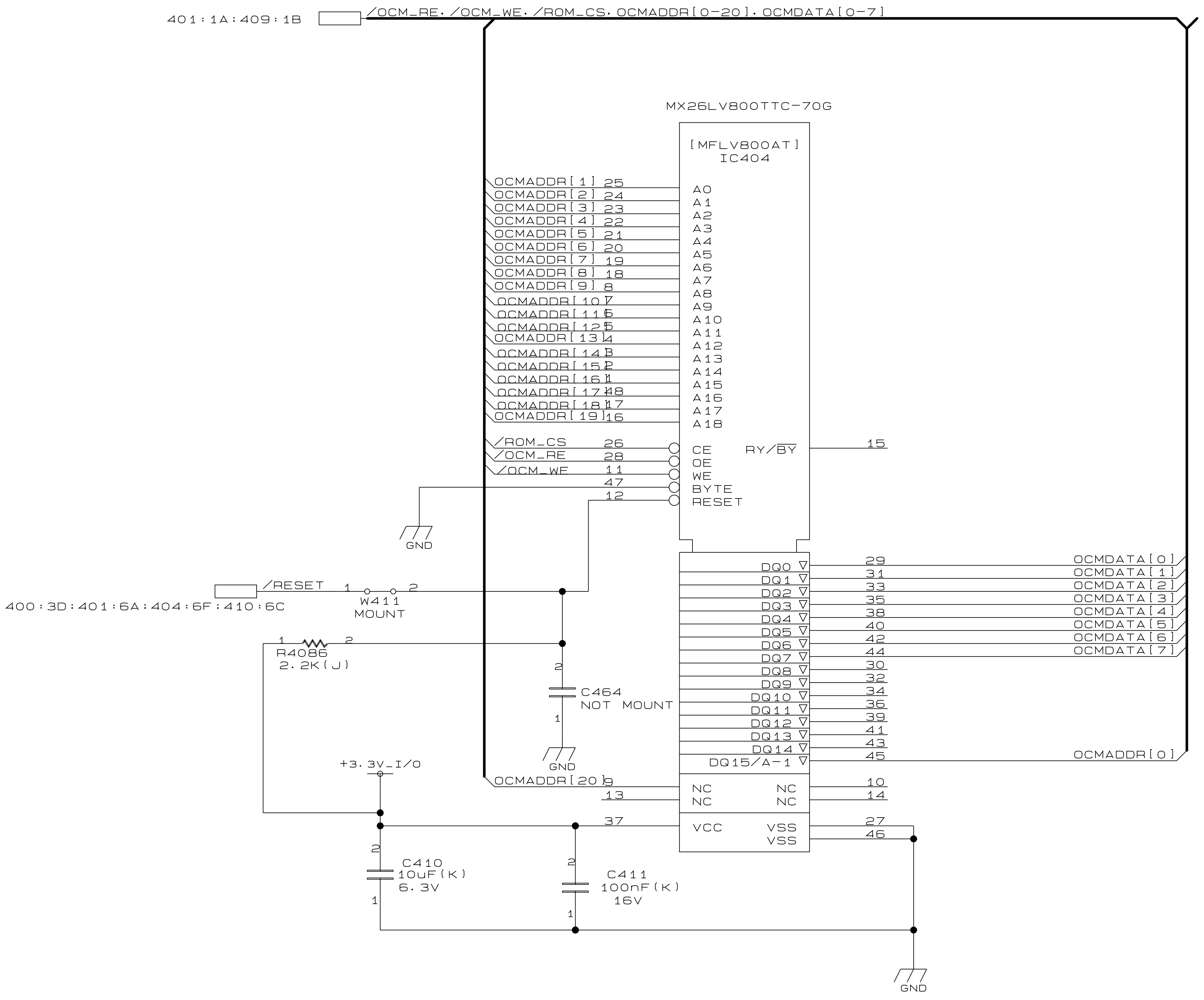
42/50HP95
SIGNAL
MICRO I/O

SH. NO.
400



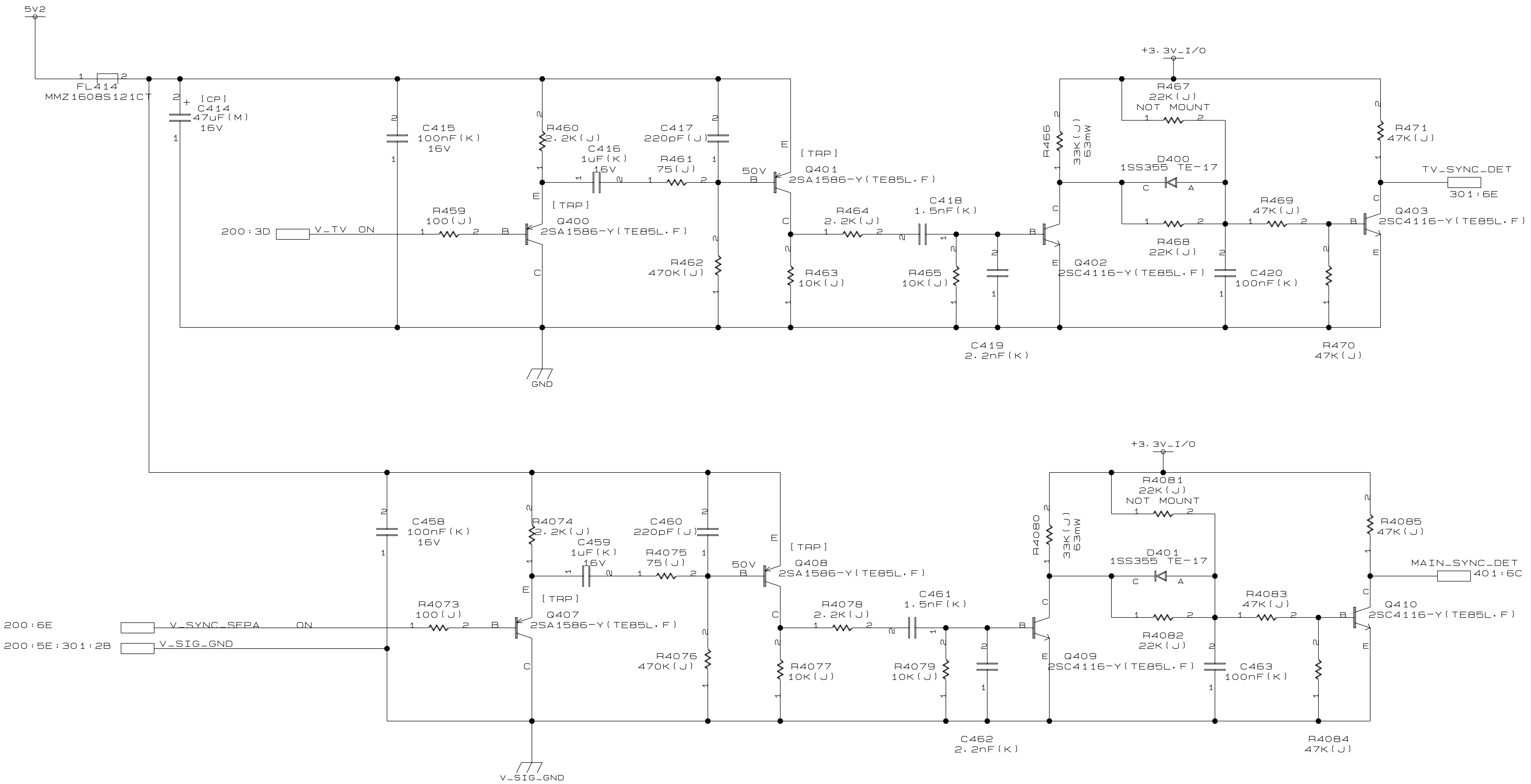
42/50HP95
SIGNAL
OCM MEMORY I/F

SH. NO.
401



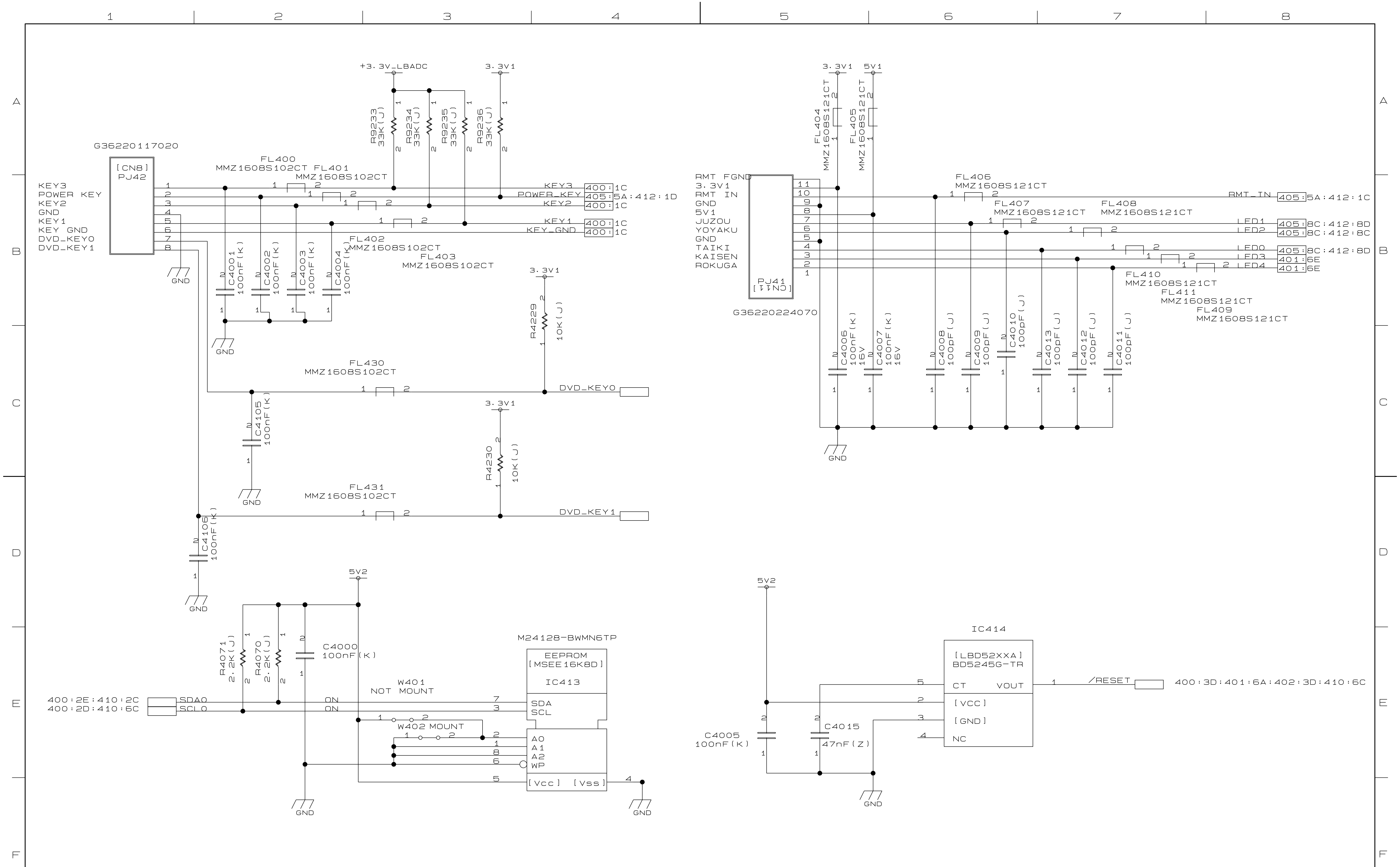
42/50HP95
SIGNAL
FLASH MEMORY

SH. NO.
402



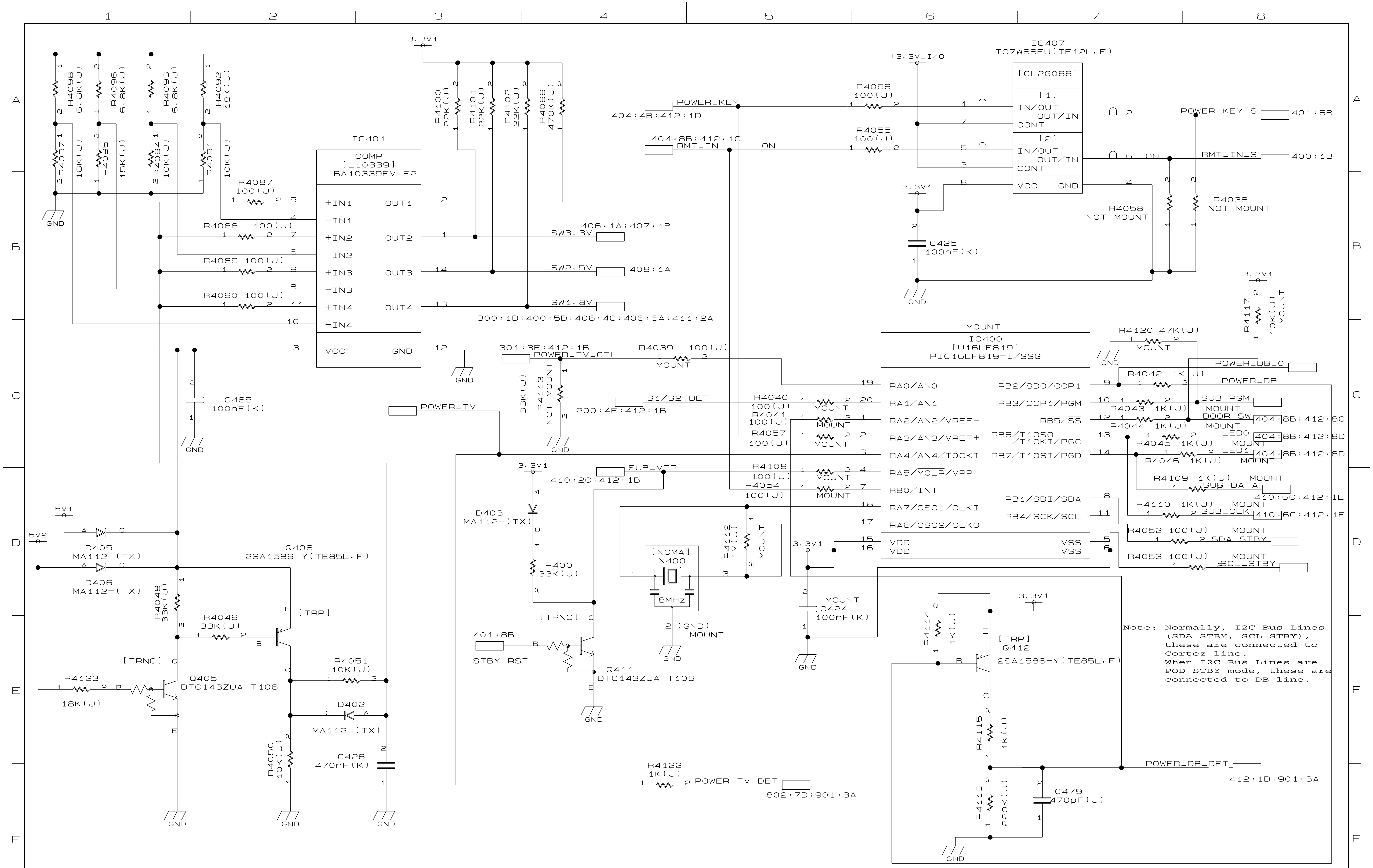
42/50HP95
SIGNAL
SYNC SEPA

SH. NO.
403



42/50HP95
SIGNAL
E2P OTHER

SH. NO.
404

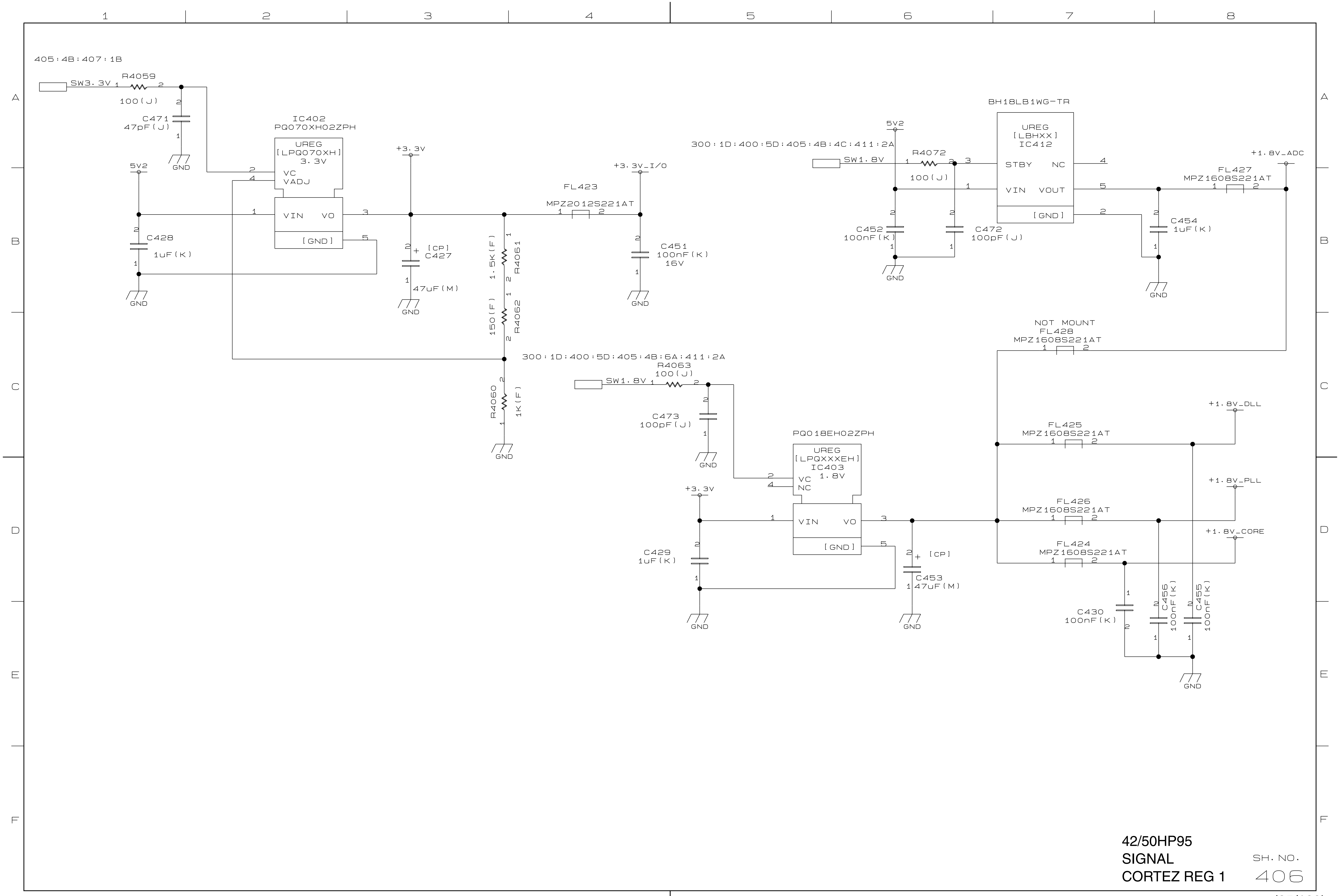


42/50HP95

SIGNAL STD-BY MICRO

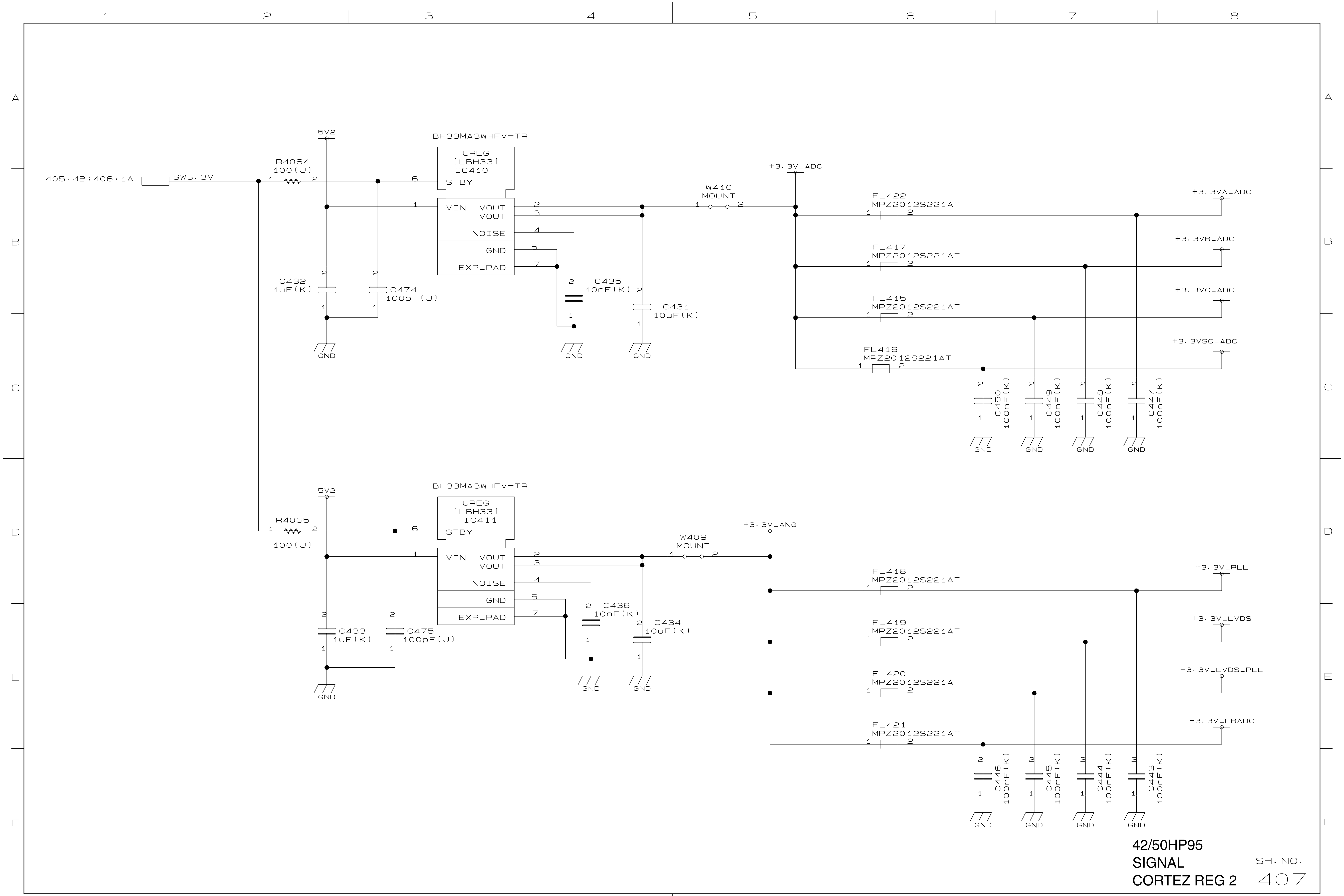
SH. NO.

405



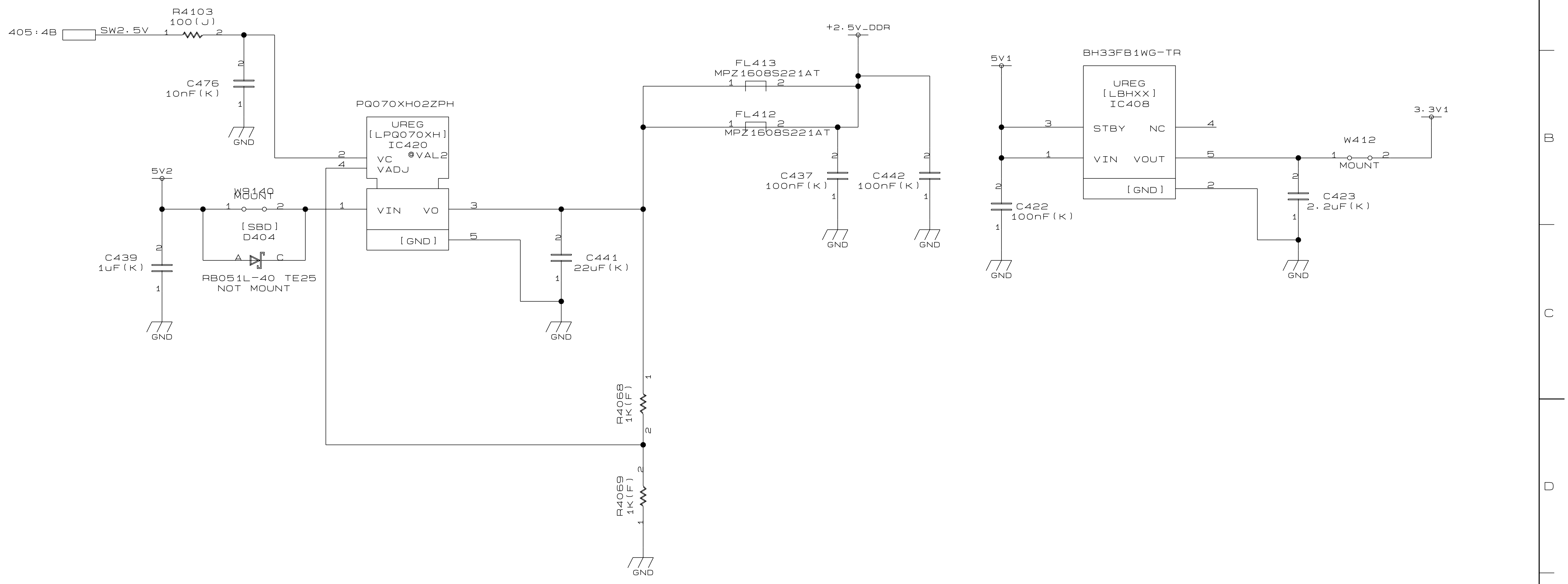
42/50HP95
SIGNAL
CORTEZ REG 1

SH. NO.
406



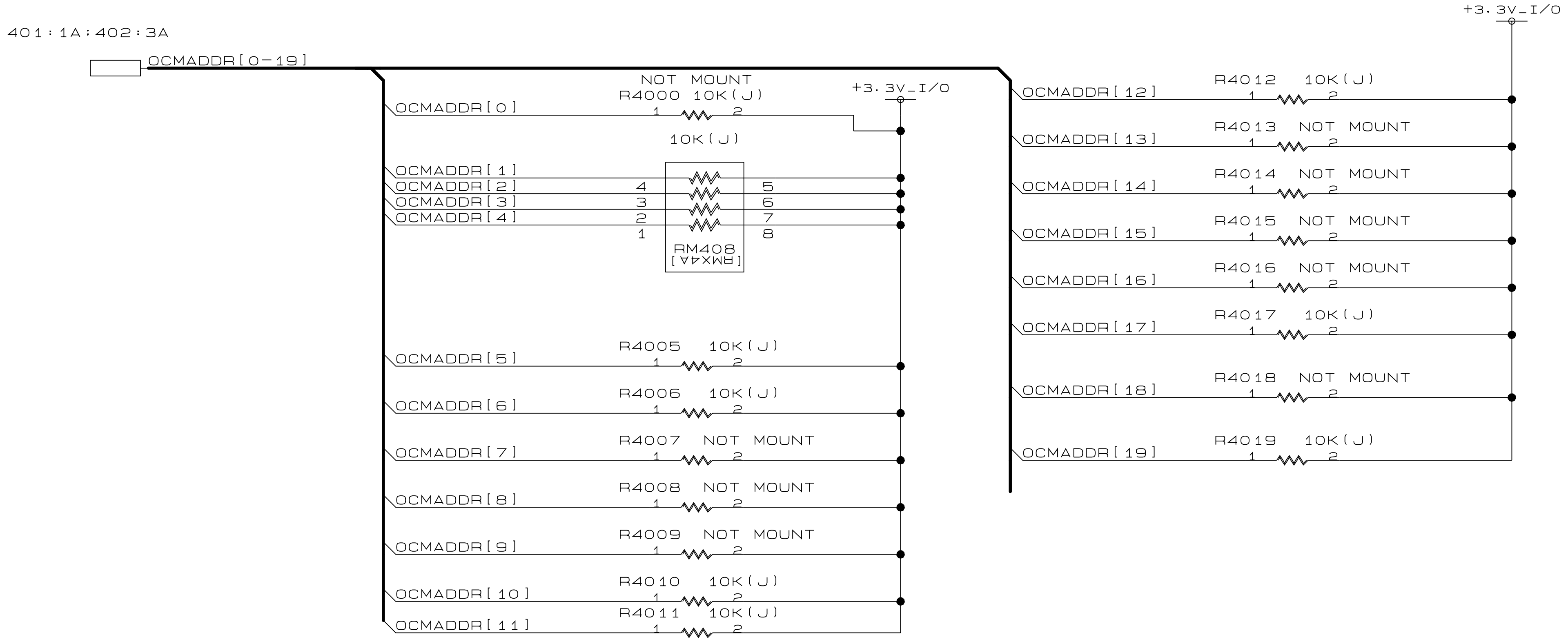
42/50HP95
SIGNAL
CORTEZ REG 2

SH. NO.
407



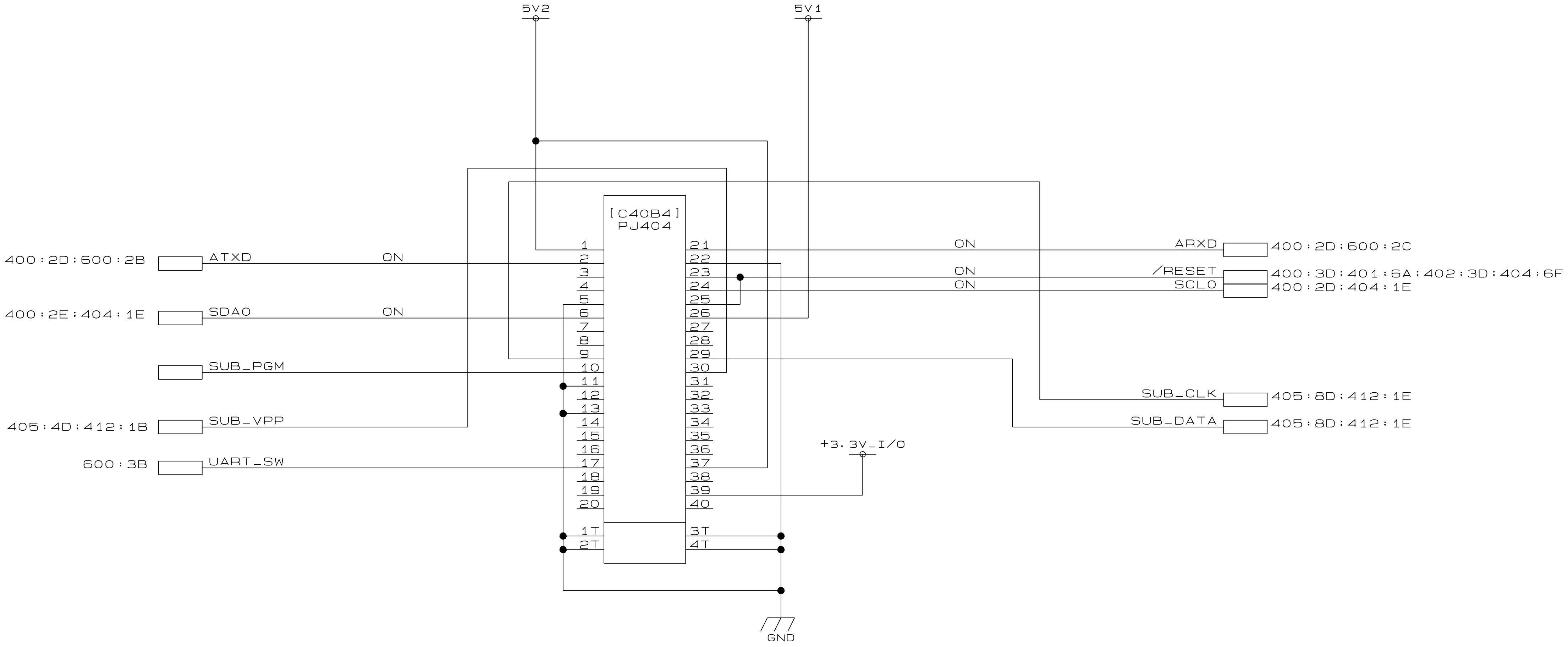
42/50HP95
SIGNAL
CORTEZ REG 3

SH. NO.
408



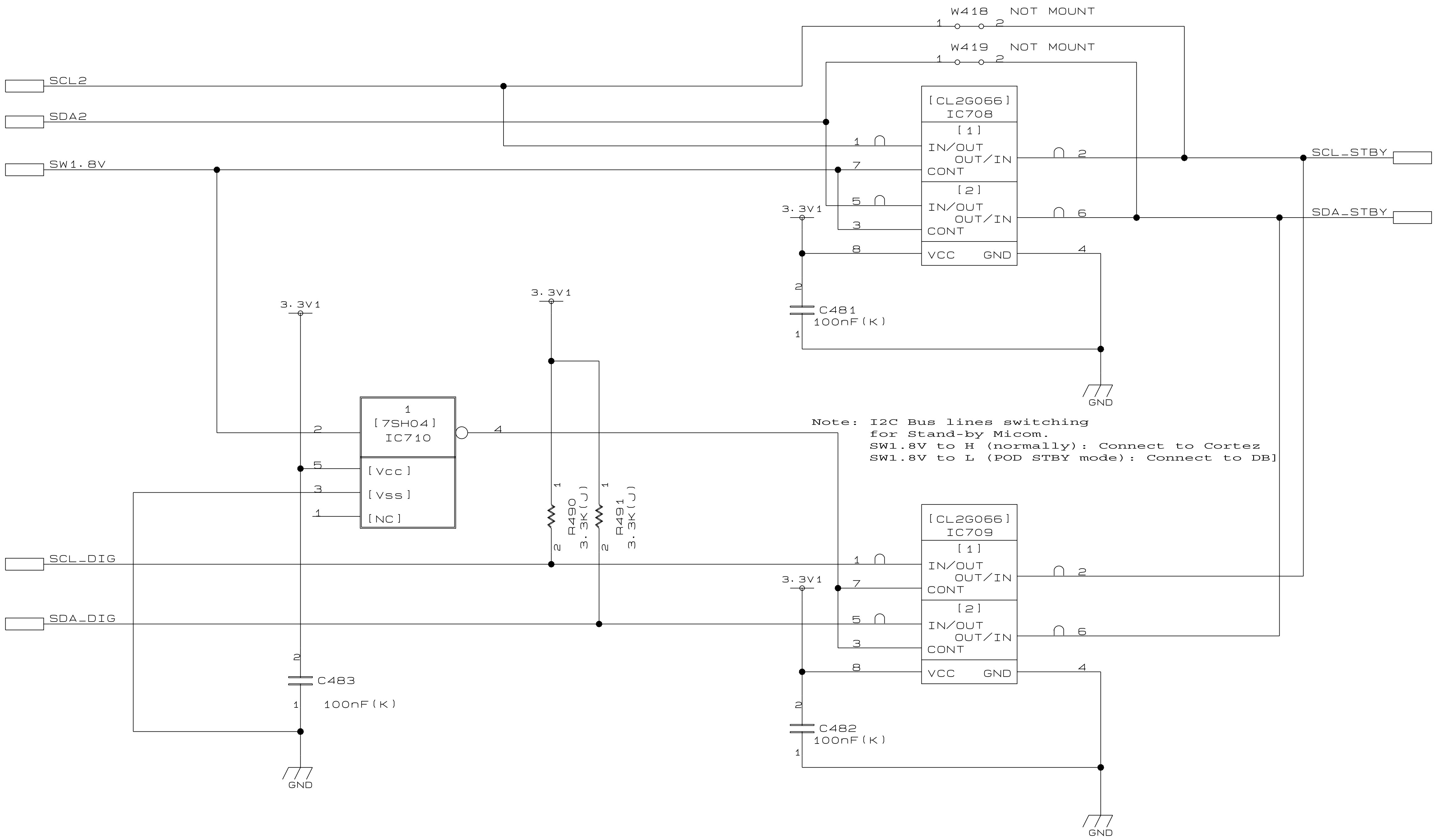
42/50HP95
SIGNAL
BOOT CONFIG

SH. NO.
409



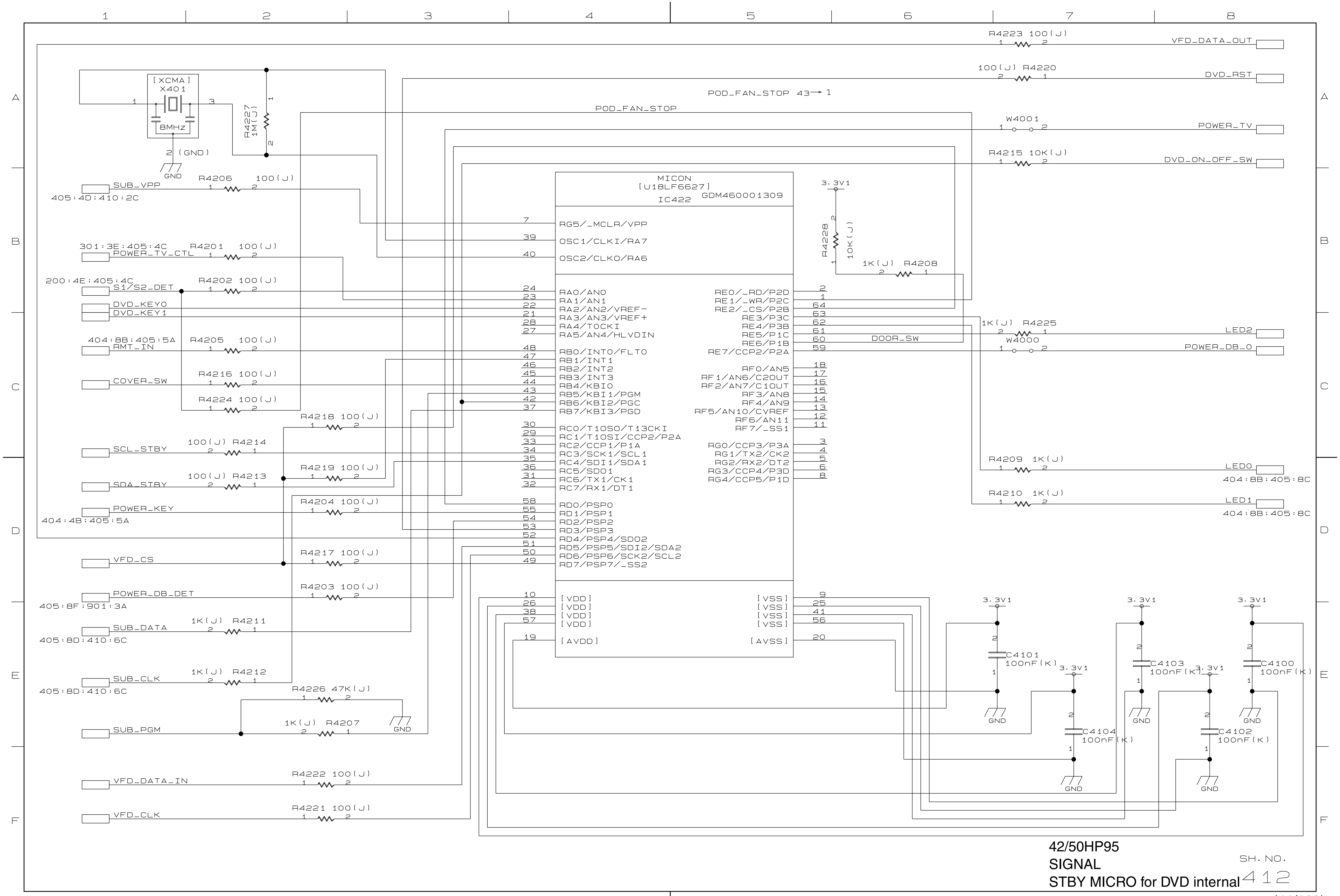
42/50HP95
SIGNAL
SERVICE CONNECTOR

SH. NO.
410



Note: I2C Bus lines switching
for Stand-by Micom.
SW1.8V to H (normally): Connect to Cortez
SW1.8V to L (POD STBY mode): Connect to DB]

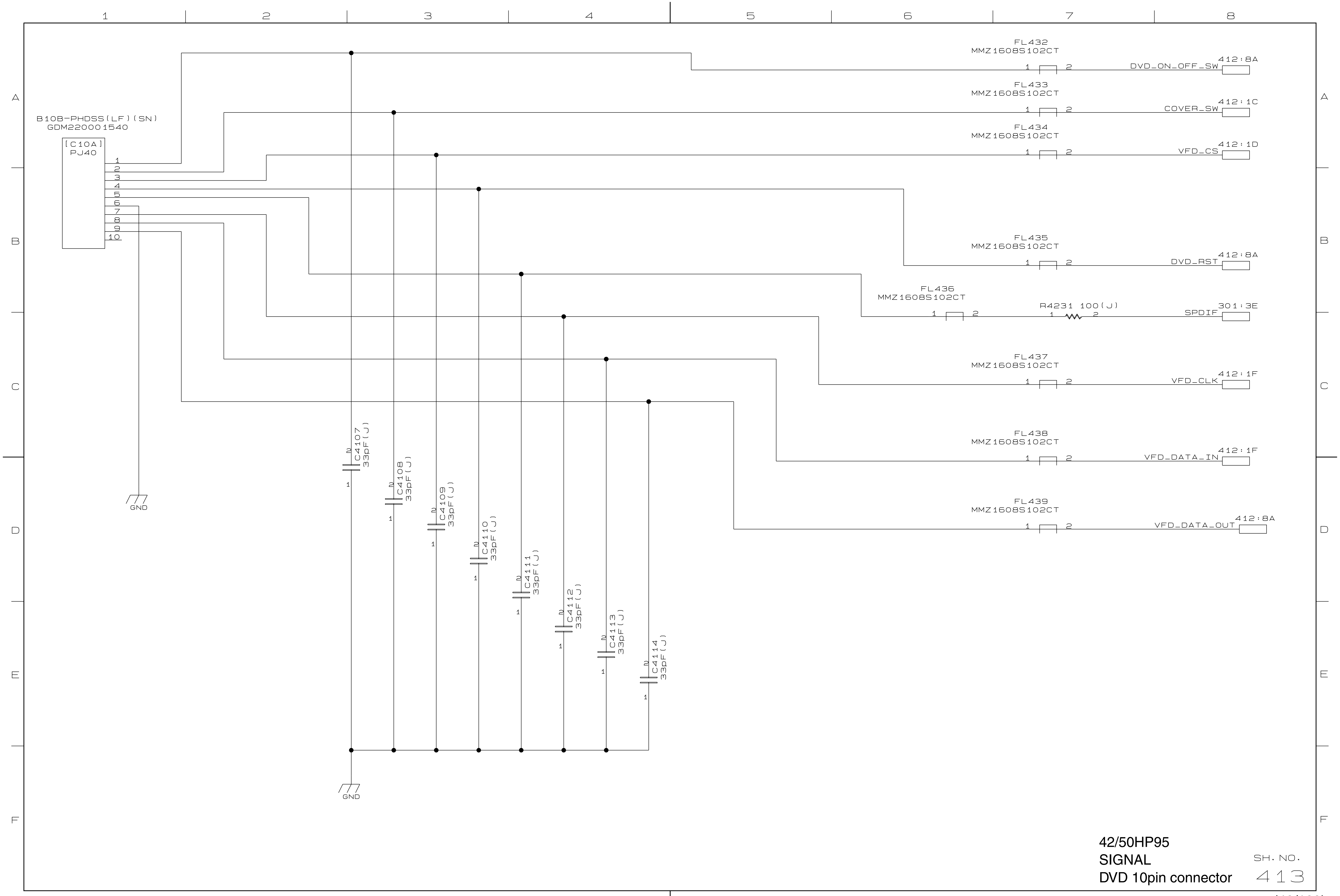
42/50HP95
SIGNAL
I2C Switch
SH. NO. 411



42/50HP95
SIGNAL
STBY MICRO for DVD internal

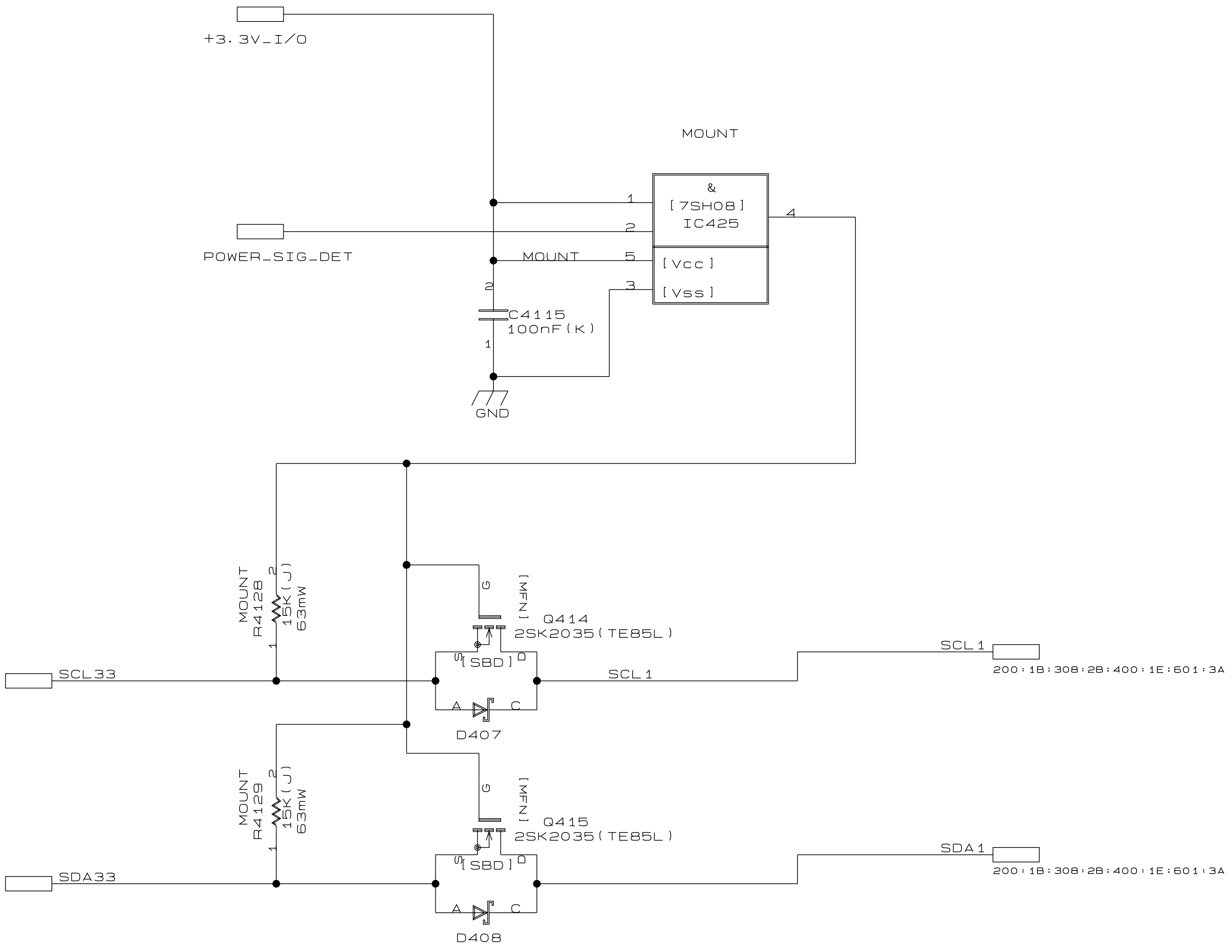
SH. NO.
412

(41/129)



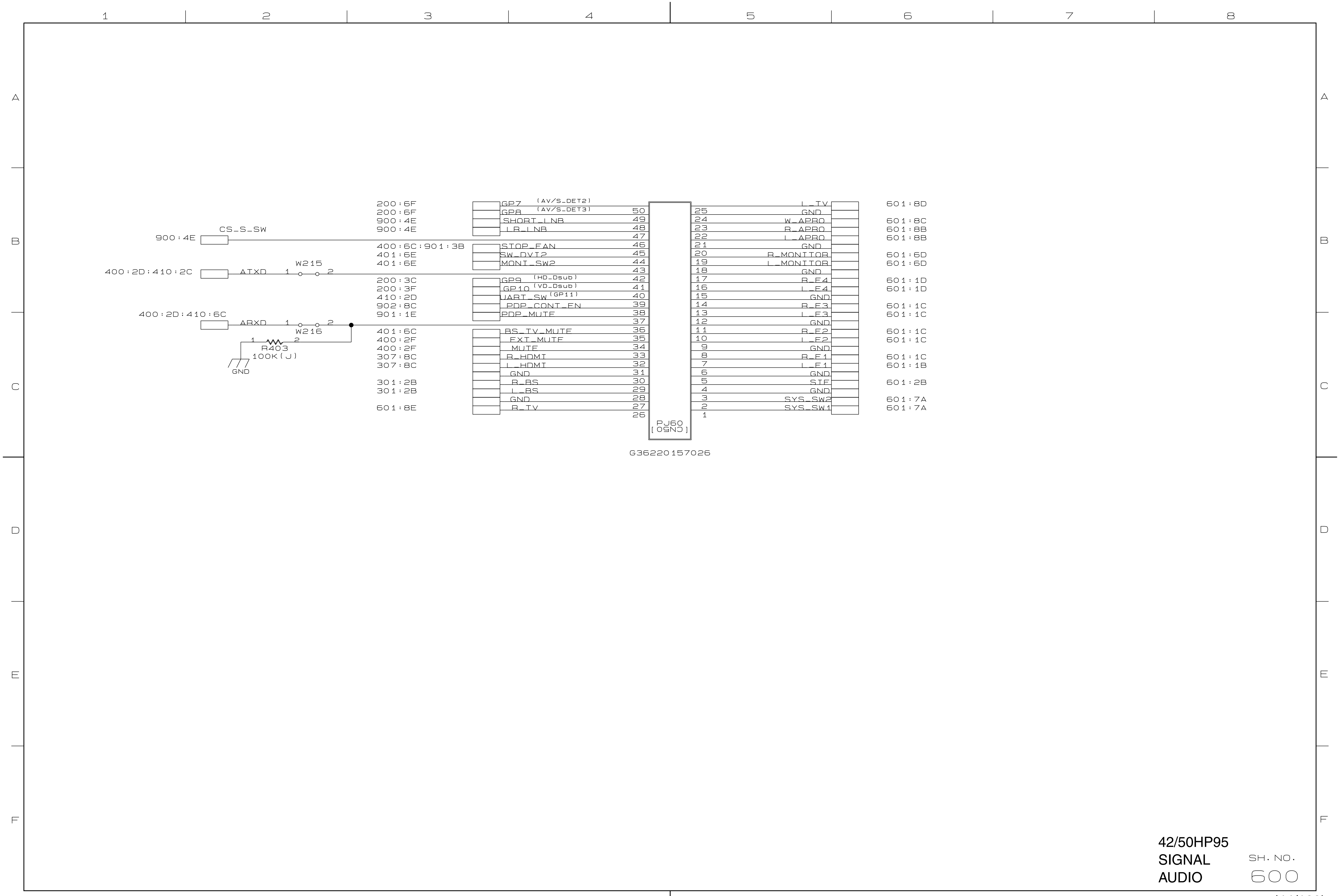
42/50HP95
SIGNAL
DVD 10pin connector

SH. NO.
413



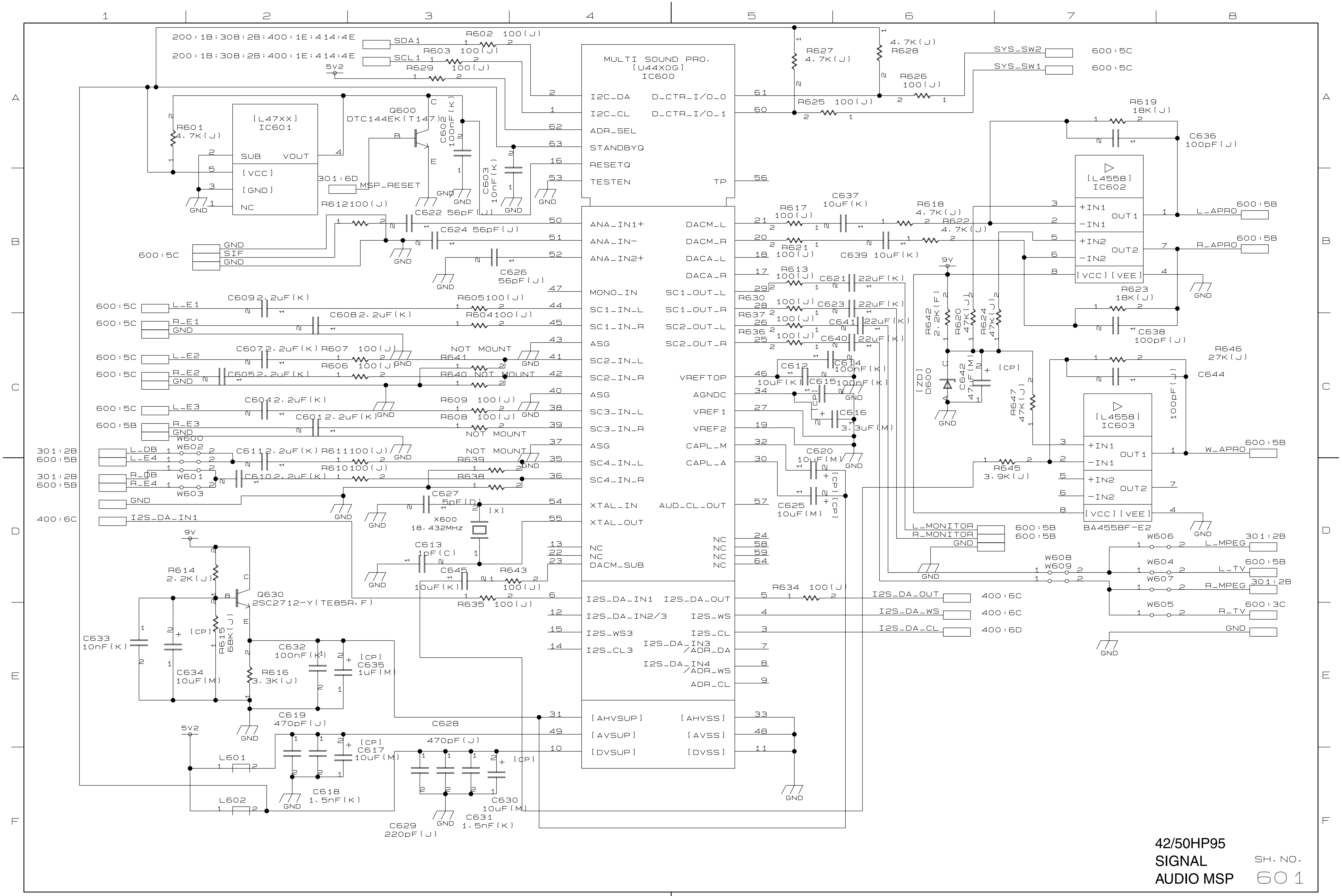
42/50HP95
SIGNAL
I2C Level shift

SH. NO.
414



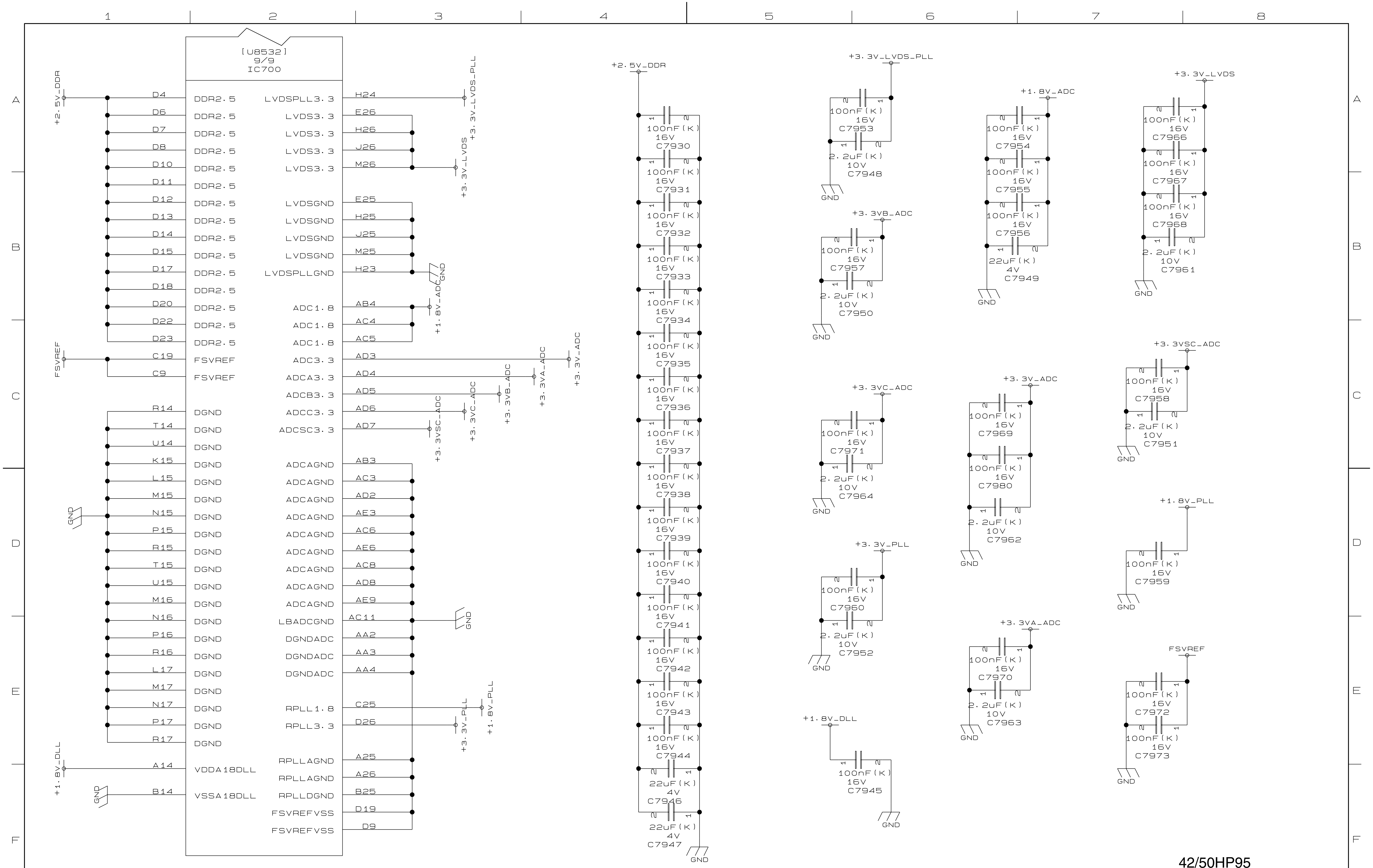
42/50HP95
SIGNAL
AUDIO

SH. NO.
600



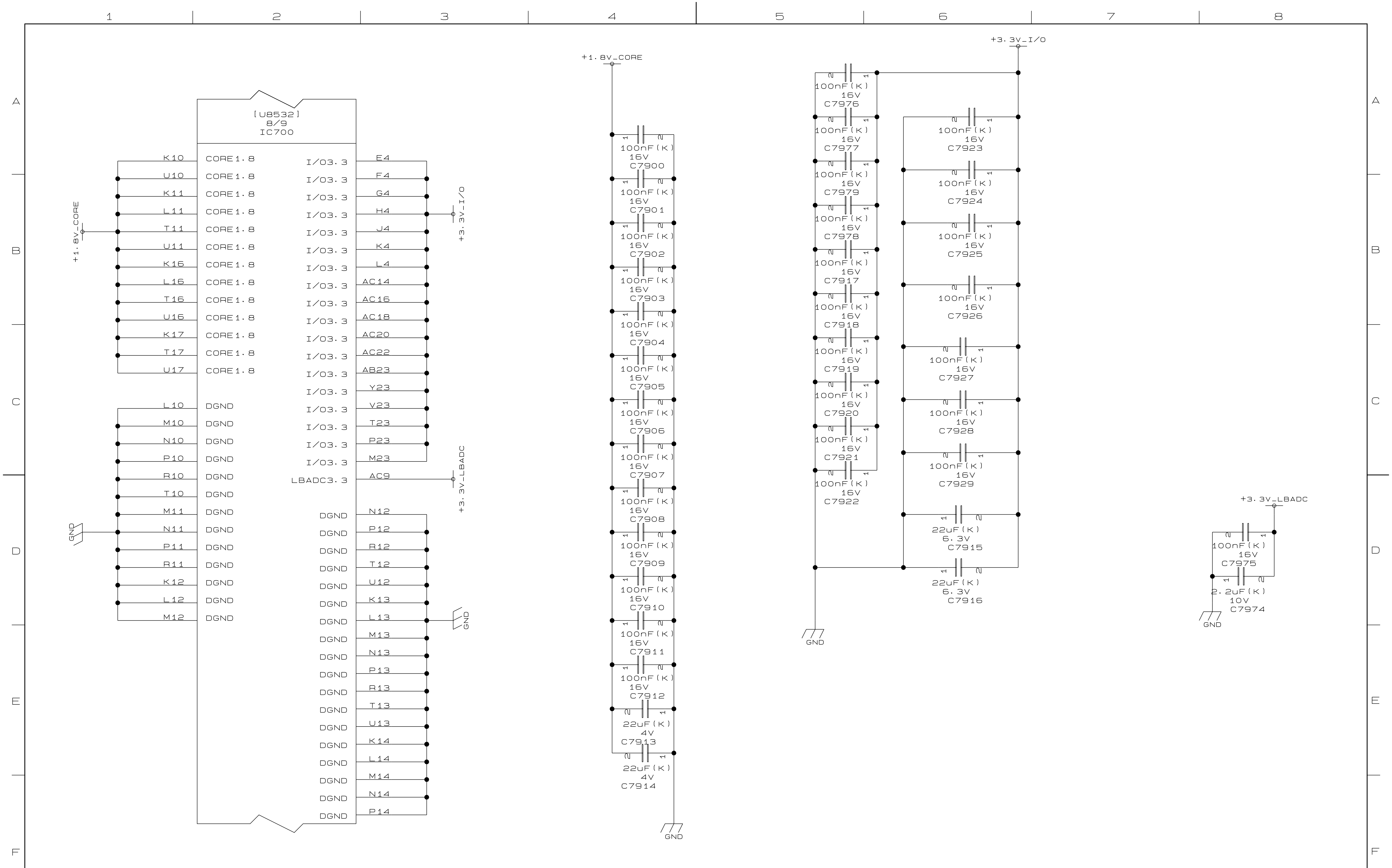
42/50HP95
SIGNAL
AUDIO MSP

SH. NO.
601



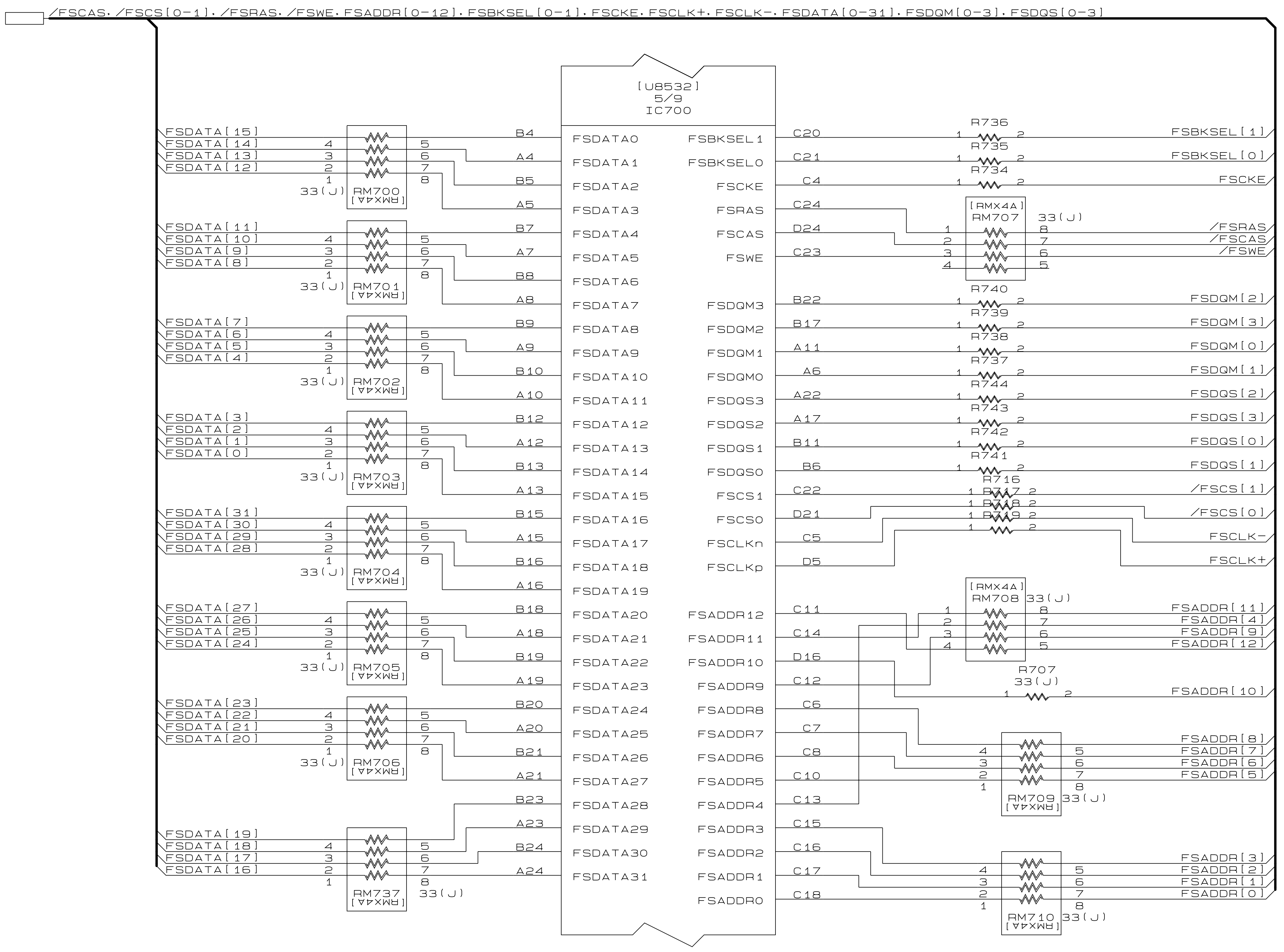
42/50HP95
SIGNAL
CORTEZ 1

SH. NO.
700



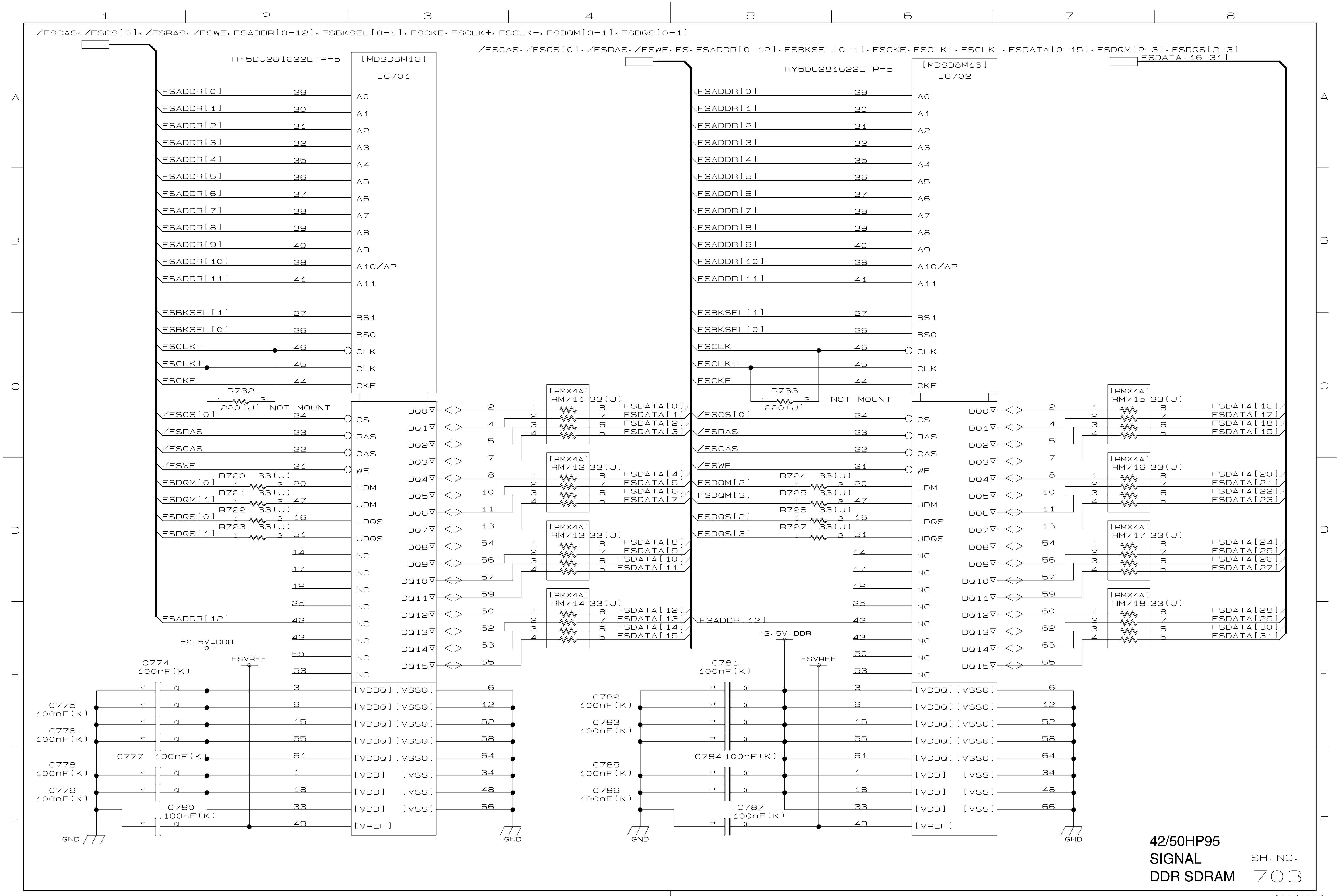
42/50HP95
SIGNAL
CORTEZ 2

SH. NO.
701



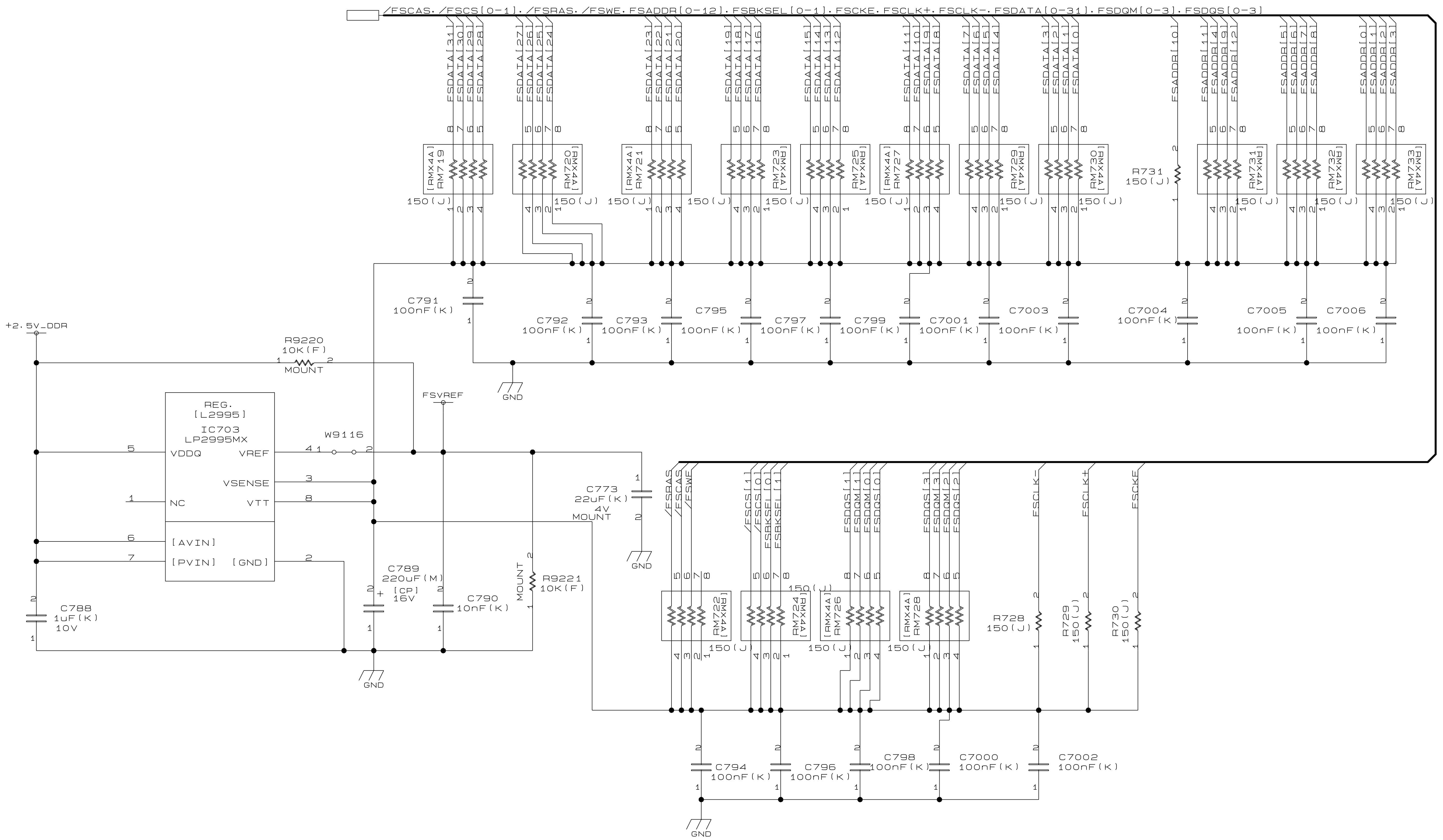
42/50HP95
SIGNAL
DDR I/F

SH. NO.
702



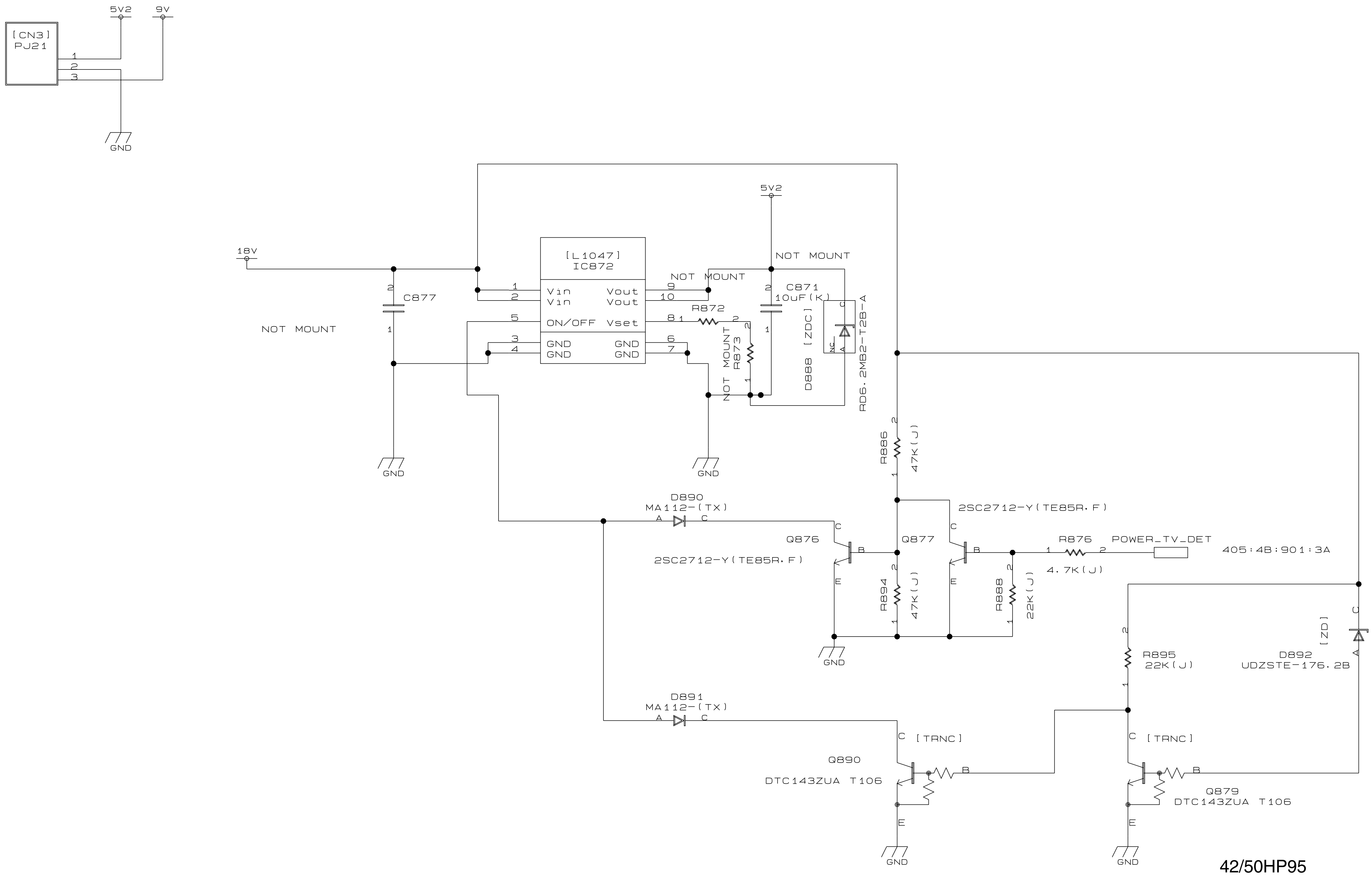
42/50HP95
SIGNAL
DDR SDRAM

SH. NO.
703



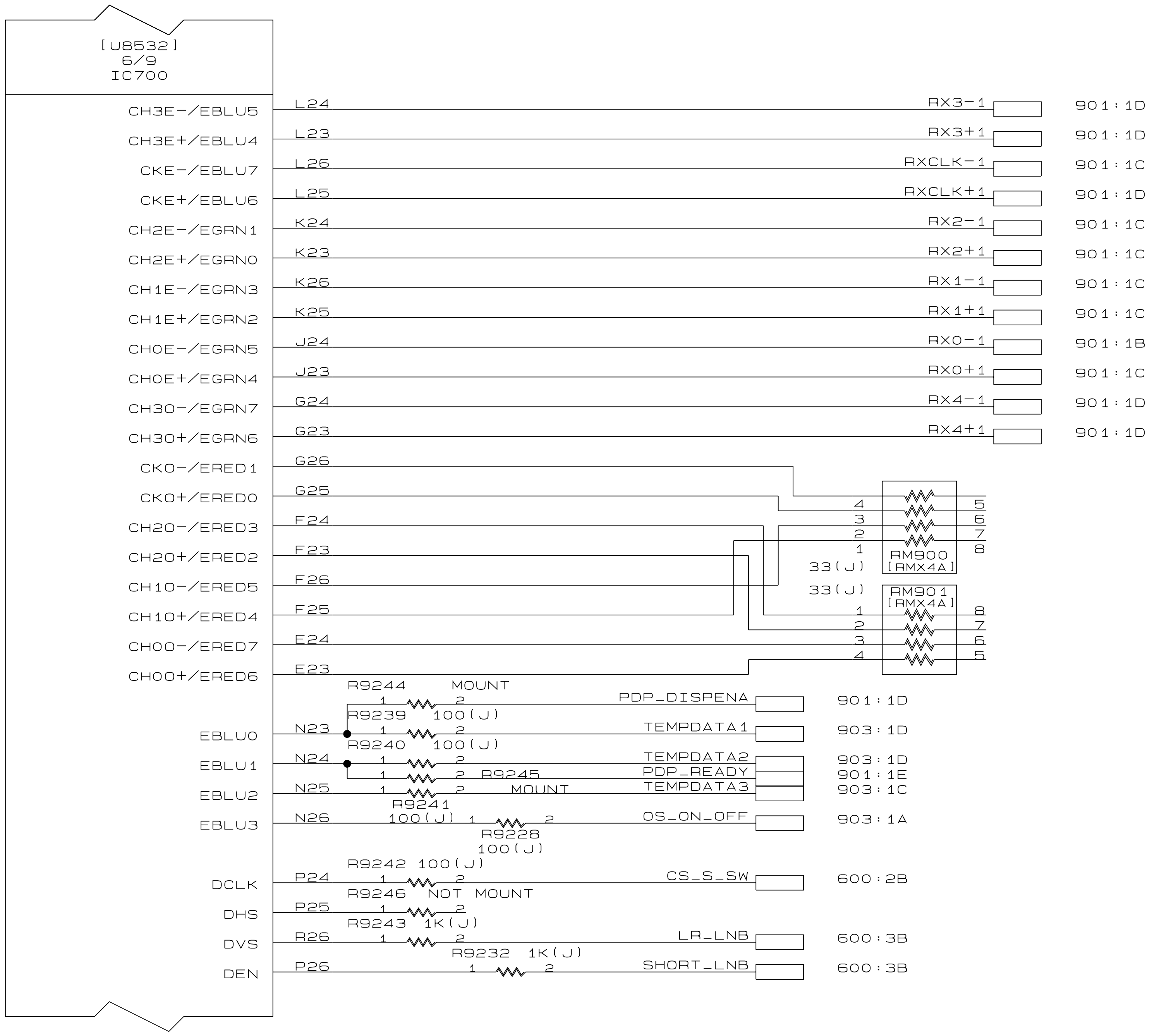
42/50HP95
SIGNAL
DDR TERMINATION

SH. NO.
704



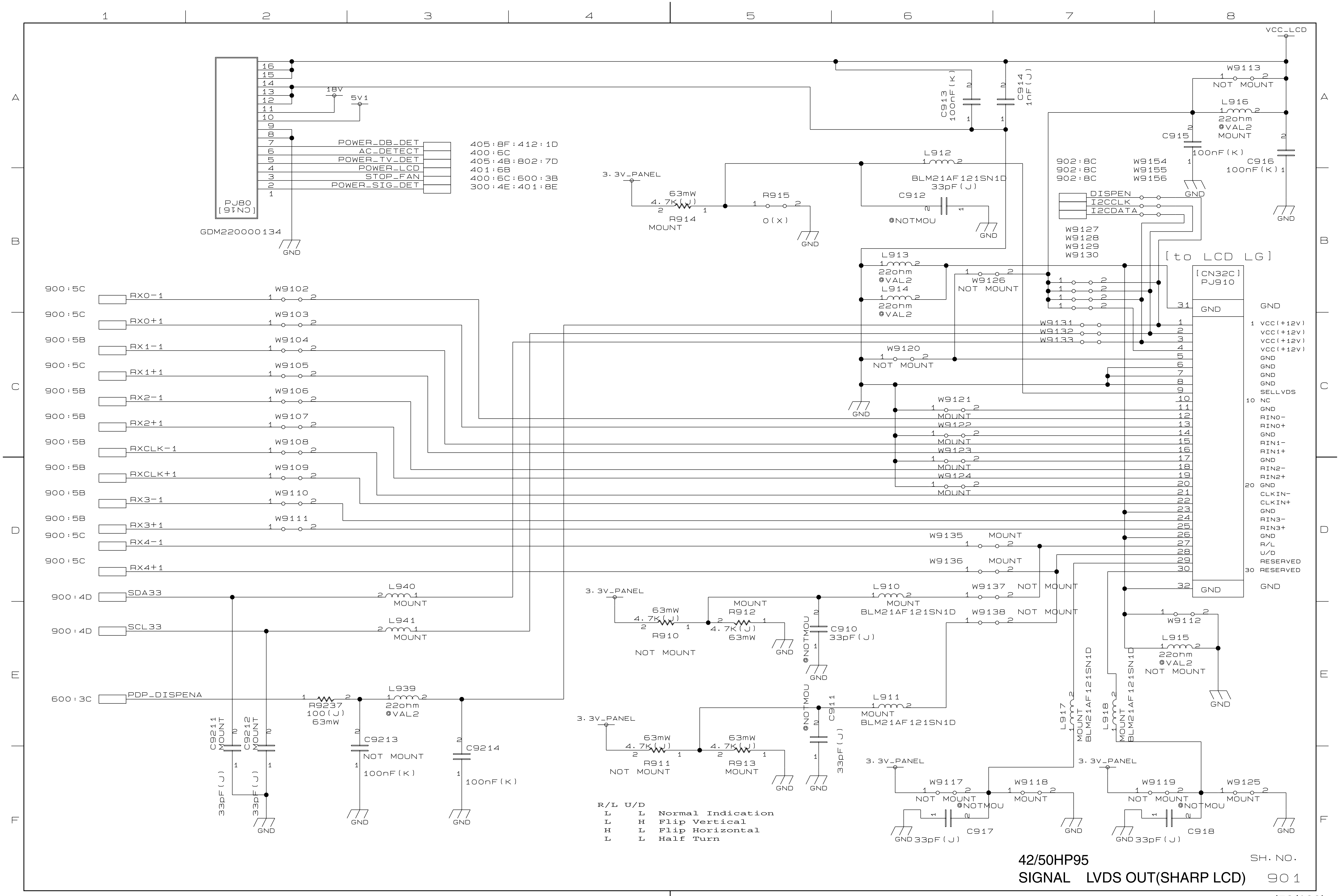
42/50HP95
SIGNAL
DCDC CONV.

SH. NO.
802



42/50HP95
SIGNAL
LVDS OUT

SH. NO.
900

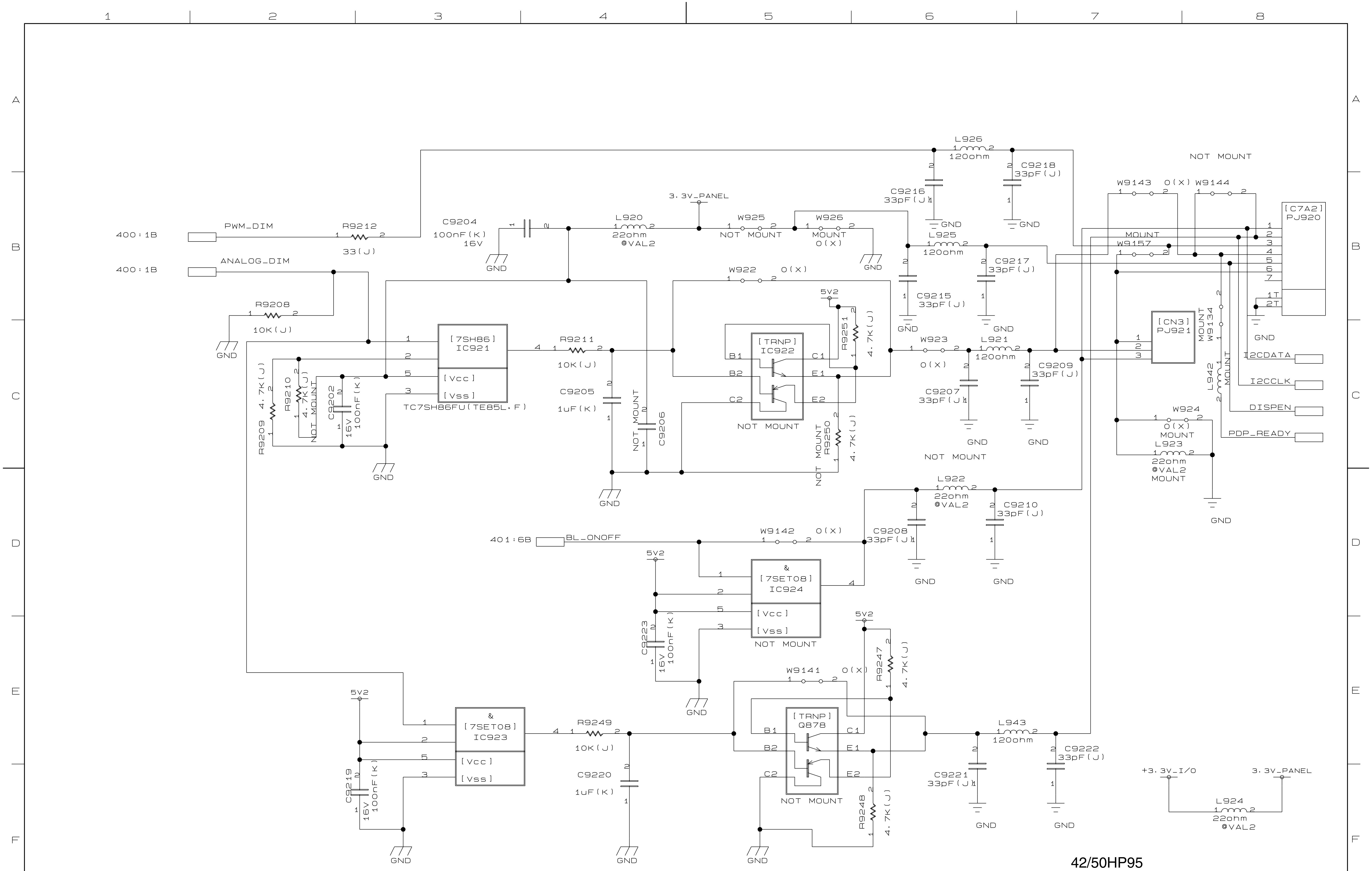


R/L	U/D	
L	L	Normal Indication
L	H	Flip Vertical
H	L	Flip Horizontal
L	L	Half Turn

42/50HP95

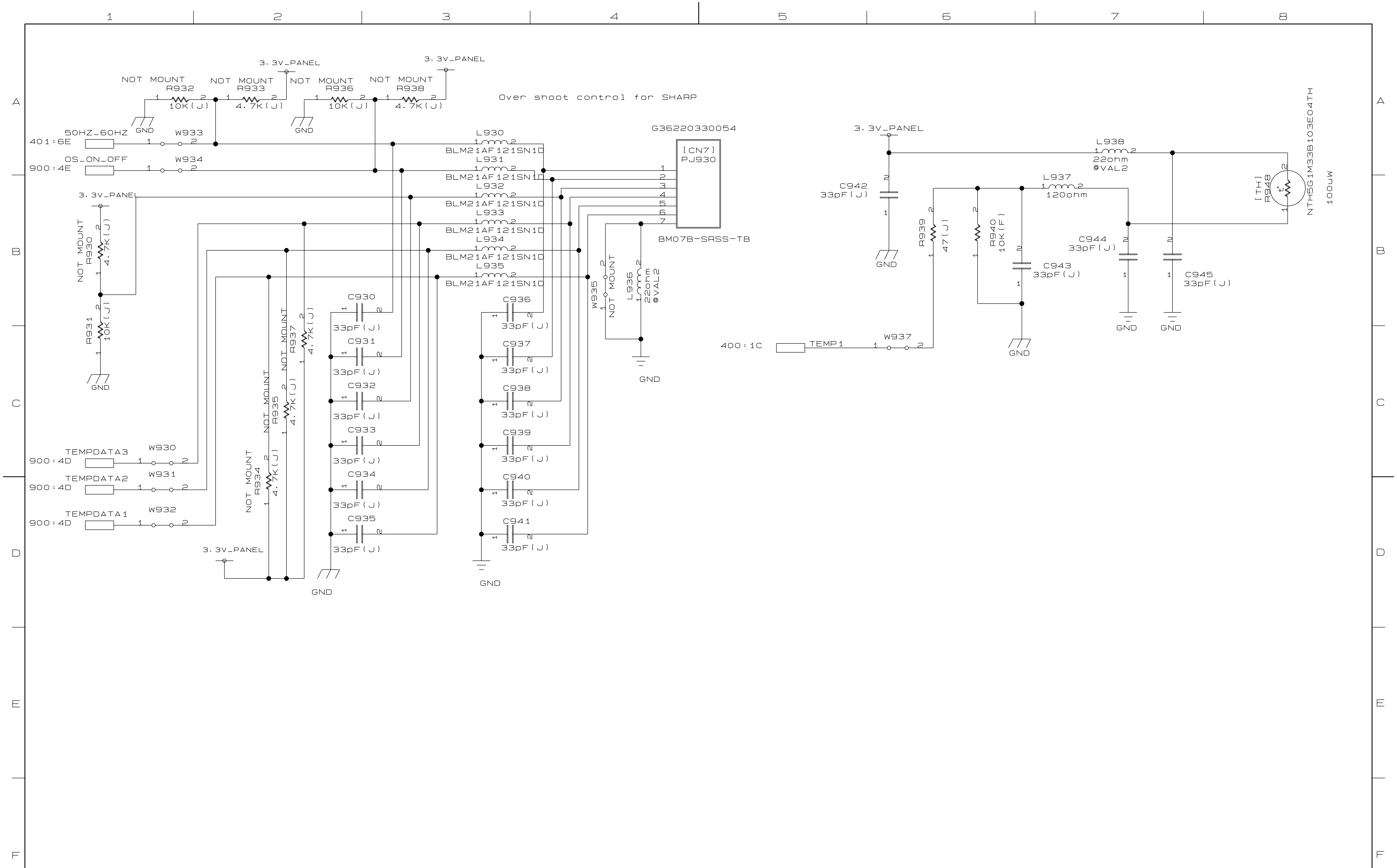
SIGNAL LVDS OUT(SHARP LCD)

SH. NO. 901



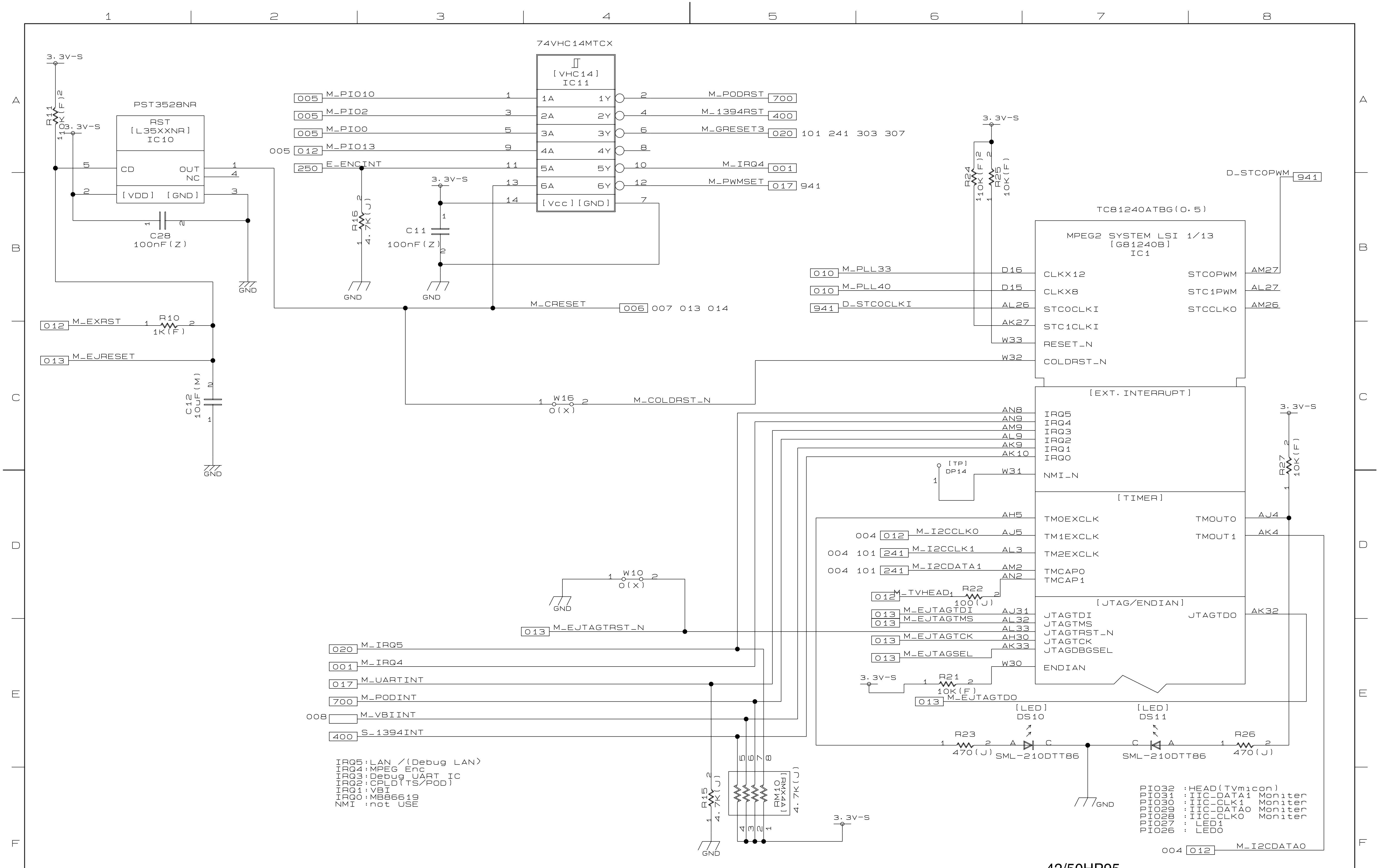
42/50HP95
SIGNAL
Power Connector and Dimming

SH. NO.
902



42/50HP95
SIGNAL
LVDS Power and Others

SH. NO.
903

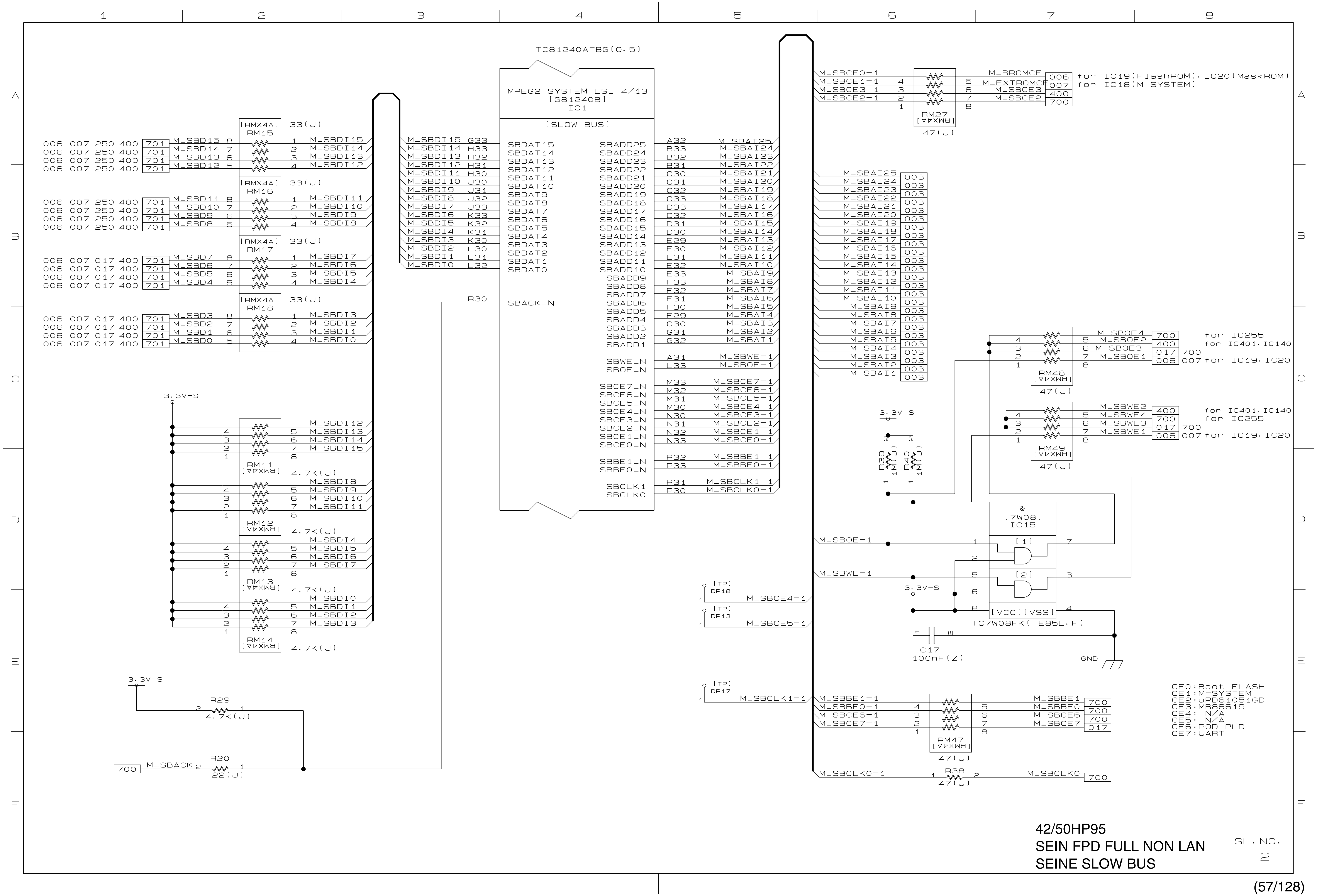


IRQ5:LAN /(Debug LAN)
IRQ4:MPEG Enc
IRQ3:Debug UART IC
IRQ2:CPLD(TS/POD)
IRQ1:VBI
IRQ0:MB86619
NMI :not USE

PIO32 :HEAD(TVmicon)
PIO31 :IIC_DATA1 Moniter
PIO30 :IIC_CLK1 Moniter
PIO29 :IIC_DATA0 Moniter
PIO28 :IIC_CLK0 Moniter
PIO27 : LED1
PIO26 : LED0

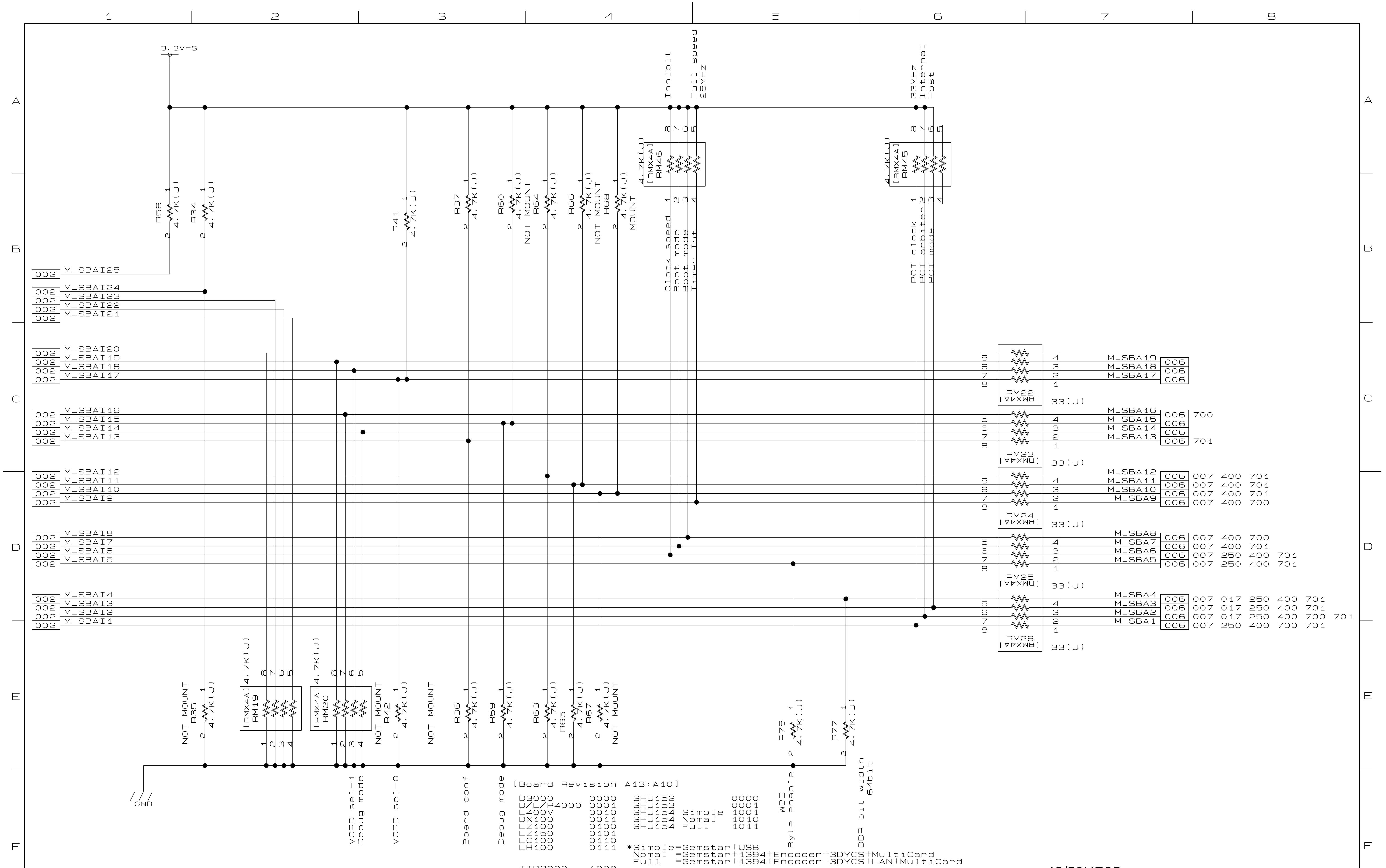
42/50HP95
SEIN FPD FULL NON LAN
SEINE RESET/CLOCK/TIMER/IRC

SH. NO.
1


TC81240ATBG(0.5)
MPEG2 SYSTEM LSI 4/13
[G81240B]
IC1
[SLOW-BUS]
SBDAT15 SBDAT14 SBDAT13 SBDAT12 SBDAT11 SBDAT10 SBDAT9 SBDAT8 SBDAT7 SBDAT6 SBDAT5 SBDAT4 SBDAT3 SBDAT2 SBDAT1 SBDAT0
SBACK_N
SBADD25 SBADD24 SBADD23 SBADD22 SBADD21 SBADD20 SBADD19 SBADD18 SBADD17 SBADD16 SBADD15 SBADD14 SBADD13 SBADD12 SBADD11 SBADD10 SBADD9 SBADD8 SBADD7 SBADD6 SBADD5 SBADD4 SBADD3 SBADD2 SBADD1
SBWE_N
SBOE_N
SBCE7_N SBCE6_N SBCE5_N SBCE4_N SBCE3_N SBCE2_N SBCE1_N SBCE0_N
SBBE1_N
SBBE0_N
SBCLK1
SBCLK0
G33 H33 H32 H31 H30 J30 J31 J32 J33 K33 K32 K31 K30 L30 L31 L32
R30
A32 B33 B32 B31 C30 C31 C32 C33 D33 D32 D31 D30 E29 E30 E31 E32 E33 F33 F32 F31 F30 F29 G30 G31 G32
A31 L33
M33 M32 M31 M30 N30 N31 N32 N33
P32 P33
P31 P30
[RMX4A] RM15 33(J)
[RMX4A] RM16 33(J)
[RMX4A] RM17 33(J)
[RMX4A] RM18 33(J)
006 007 250 400 701 M_SBD15
006 007 250 400 701 M_SBD14
006 007 250 400 701 M_SBD13
006 007 250 400 701 M_SBD12
006 007 250 400 701 M_SBD11
006 007 250 400 701 M_SBD10
006 007 250 400 701 M_SBD9
006 007 250 400 701 M_SBD8
006 007 017 400 701 M_SBD7
006 007 017 400 701 M_SBD6
006 007 017 400 701 M_SBD5
006 007 017 400 701 M_SBD4
006 007 017 400 701 M_SBD3
006 007 017 400 701 M_SBD2
006 007 017 400 701 M_SBD1
006 007 017 400 701 M_SBD0
M_SBDI15 M_SBDI14 M_SBDI13 M_SBDI12 M_SBDI11 M_SBDI10 M_SBDI9 M_SBDI8 M_SBDI7 M_SBDI6 M_SBDI5 M_SBDI4 M_SBDI3 M_SBDI2 M_SBDI1 M_SBDI0
3.3V-S
RM11 [RMX4A] 4.7K(J)
RM12 [RMX4A] 4.7K(J)
RM13 [RMX4A] 4.7K(J)
RM14 [RMX4A] 4.7K(J)
R29 4.7K(J)
700 M_SBACK
R20 22(J)
M_SBAI25 M_SBAI24 M_SBAI23 M_SBAI22 M_SBAI21 M_SBAI20 M_SBAI19 M_SBAI18 M_SBAI17 M_SBAI16 M_SBAI15 M_SBAI14 M_SBAI13 M_SBAI12 M_SBAI11 M_SBAI10 M_SBAI9 M_SBAI8 M_SBAI7 M_SBAI6 M_SBAI5 M_SBAI4 M_SBAI3 M_SBAI2 M_SBAI1
003
M_SBWE-1 M_SBOE-1
M_SBCE7-1 M_SBCE6-1 M_SBCE5-1 M_SBCE4-1 M_SBCE3-1 M_SBCE2-1 M_SBCE1-1 M_SBCE0-1
M_SBBE1-1 M_SBBE0-1
M_SBCLK1-1 M_SBCLK0-1
M_SBCE0-1 M_SBCE1-1 M_SBCE3-1 M_SBCE2-1
RM27 [RMX4A] 47(J)
M_BROMCE 006 for IC19(FlashROM). IC20(MaskROM)
M_EXTROMCE 007 for IC18(M-SYSTEM)
M_SBCE3 400
M_SBCE2 700
RM48 [RMX4A] 47(J)
M_SBOE4 700 for IC255
M_SBOE2 400 for IC401. IC140
M_SBOE3 017 700
M_SBOE1 006 007 for IC19. IC20
RM49 [RMX4A] 47(J)
M_SBWE2 400 for IC401. IC140
M_SBWE4 700 for IC255
M_SBWE3 017 700
M_SBWE1 006 007 for IC19. IC20
R39 1M(J)
R40 1M(J)
&
[7W08]
IC15
[1] [2]
[VCC][VSS]
TC7W08FK(TE85L.F)
C17 100nF(Z)
GND
M_SBOE-1
M_SBWE-1
[TP] DP18 M_SBCE4-1
[TP] DP13 M_SBCE5-1
[TP] DP17 M_SBCLK1-1
M_SBBE1-1 M_SBBE0-1 M_SBCE6-1 M_SBCE7-1
RM47 [RMX4A] 47(J)
M_SBBE1 700
M_SBBE0 700
M_SBCE6 700
M_SBCE7 017
M_SBCLK0-1
R38 47(J)
M_SBCLK0 700
CE0:Boot FLASH
CE1:M-SYSTEM
CE2:uPD61051GD
CE3:MB86619
CE4: N/A
CE5: N/A
CE6:POD PLD
CE7:UART
1 2 3 4 5 6 7 8
A B C D E F

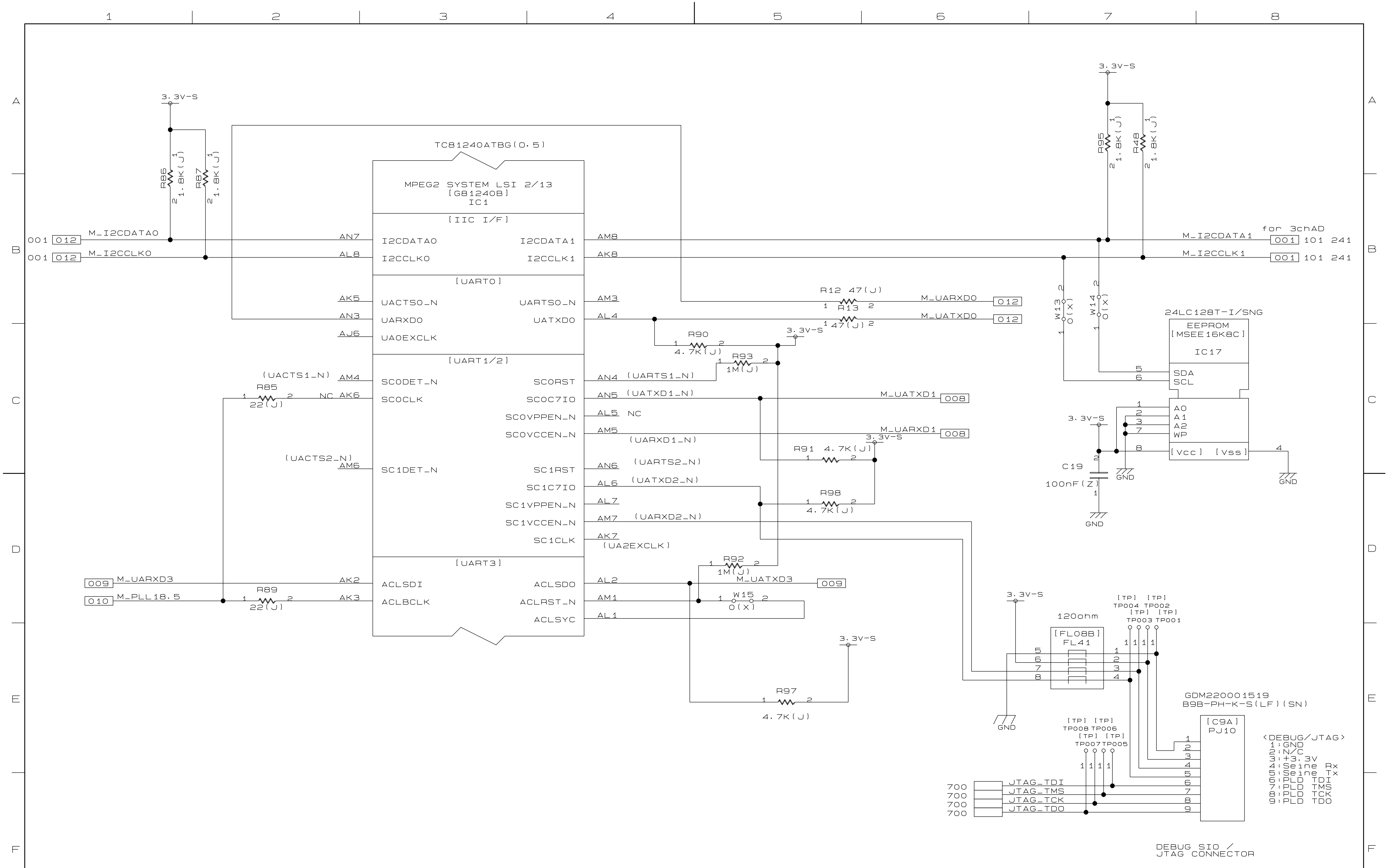
42/50HP95
SEIN FPD FULL NON LAN
SEINE SLOW BUS

SH. NO.
2



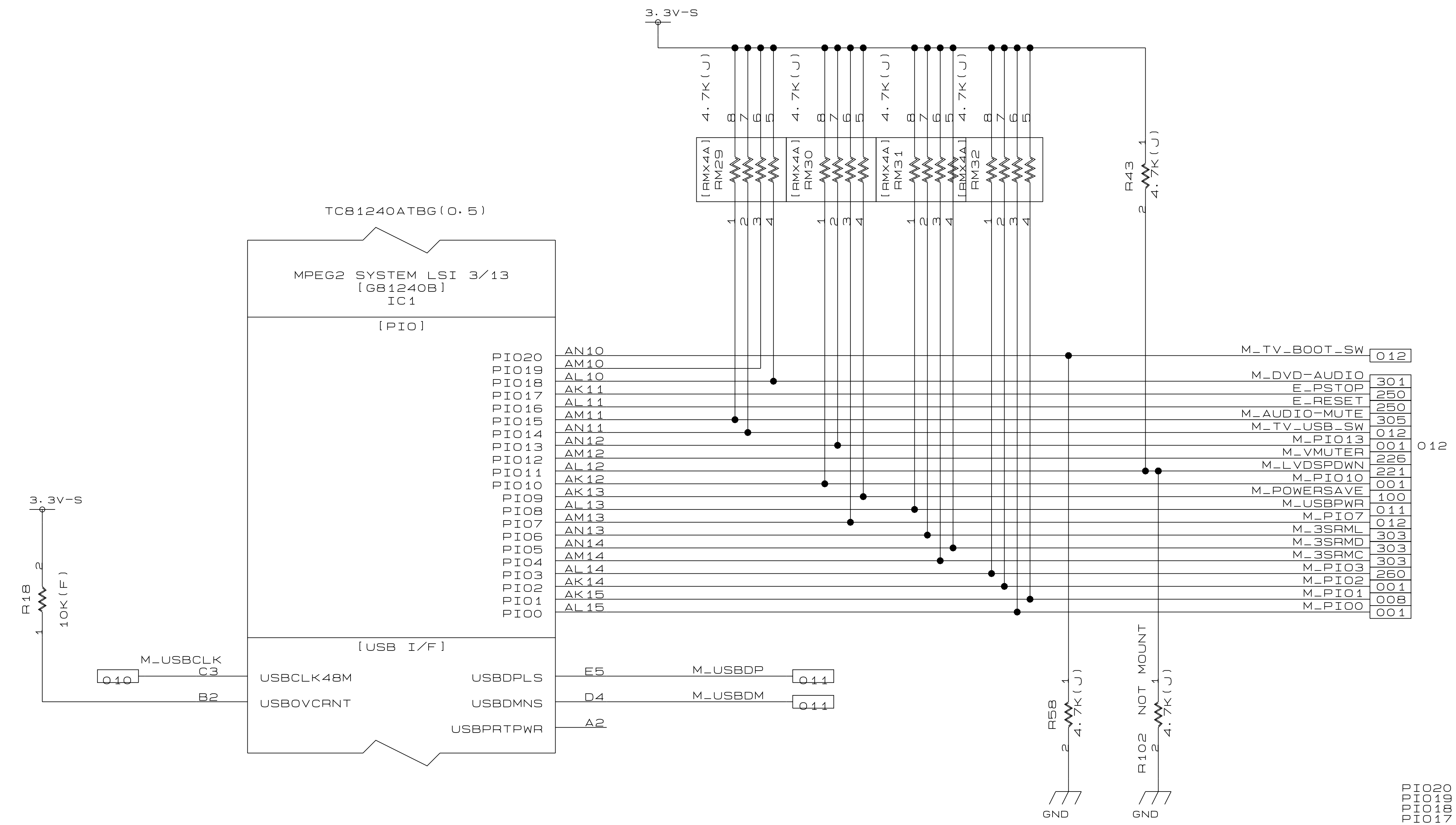
42/50HP95
SEIN FPD FULL NON LAN
SLOW BUS ADDRESS REGISTER

SH. NO.
3



42/50HP95
SEIN FPD FULL NON LAN
SEINE IIC/UART

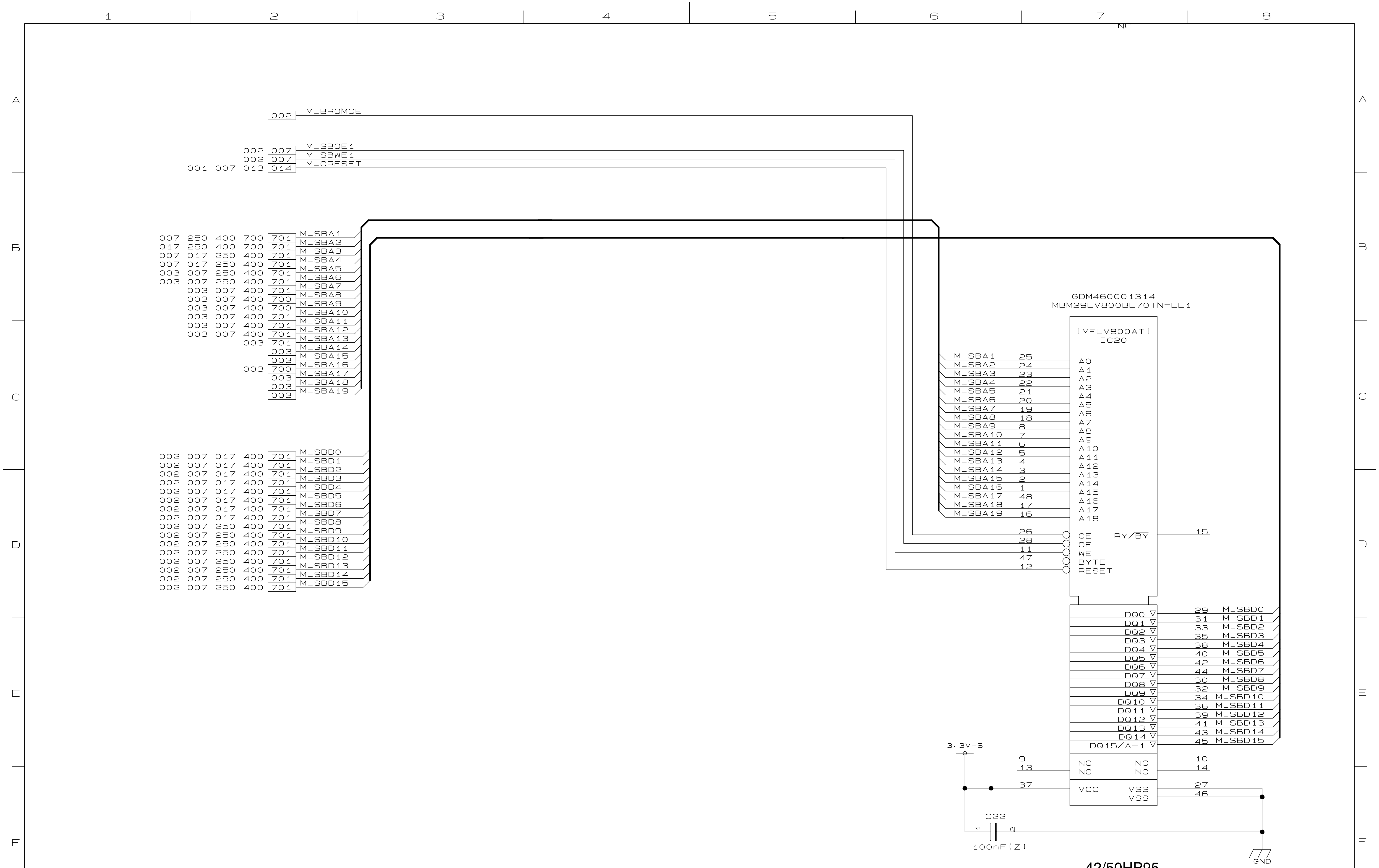
SH. NO.
4



PIO20:TV BOOT SW
PIO19: N.C.
PIO18:DVD AUDIO
PIO17:Encoder STOP
PIO16:Encoder RESET
PIO15:Audio Mute
PIO14:TV USB SW
PIO13:Pod Stanby UARTO SW
PIO12:Video Mute for RecOUT
PIO11:LVDS POWER DOWN
PIO10:PLD RESET
PIO9 :POWER SAVE
PIO8 :USB Power
PIO7 :Pod Stanby IICO SW
PIO6 :Serial bus latch(D/A)
PIO5 :Serial bus data(D/A)
PIO4 :Serial bus clock(D/A)
PIO3 :Gemster IR Reset
PIO2 :1394LSI Reset
PIO1 :Gemster IR Reset
PIO0 :3.3V Grobal Reset

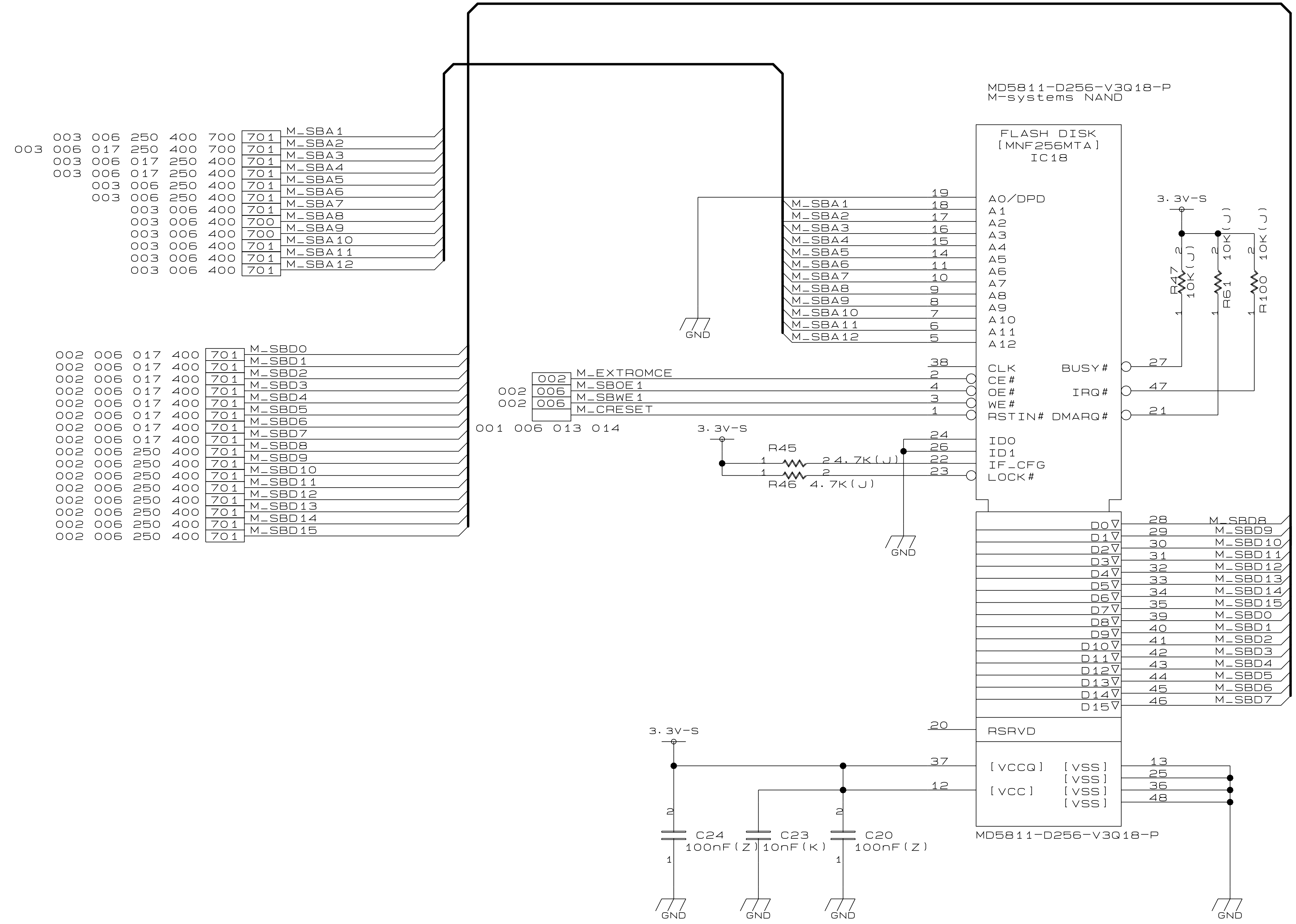
42/50HP95
SEIN FPD FULL NON LAN
SEINE PIO

SH. NO.
5



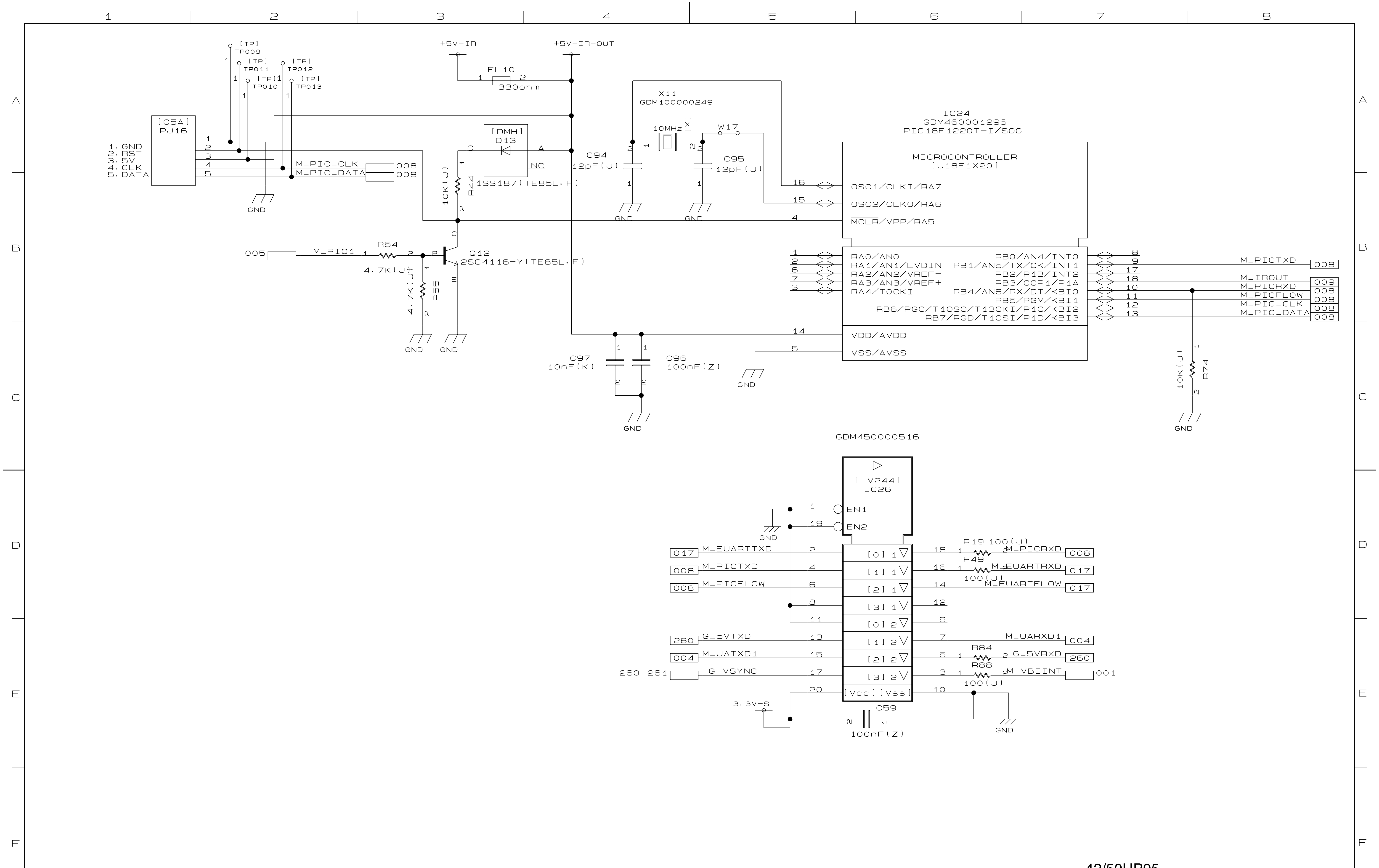
42/50HP95
SEIN FPD FULL NON LAN
ROM/FLASH

SH. NO.
6



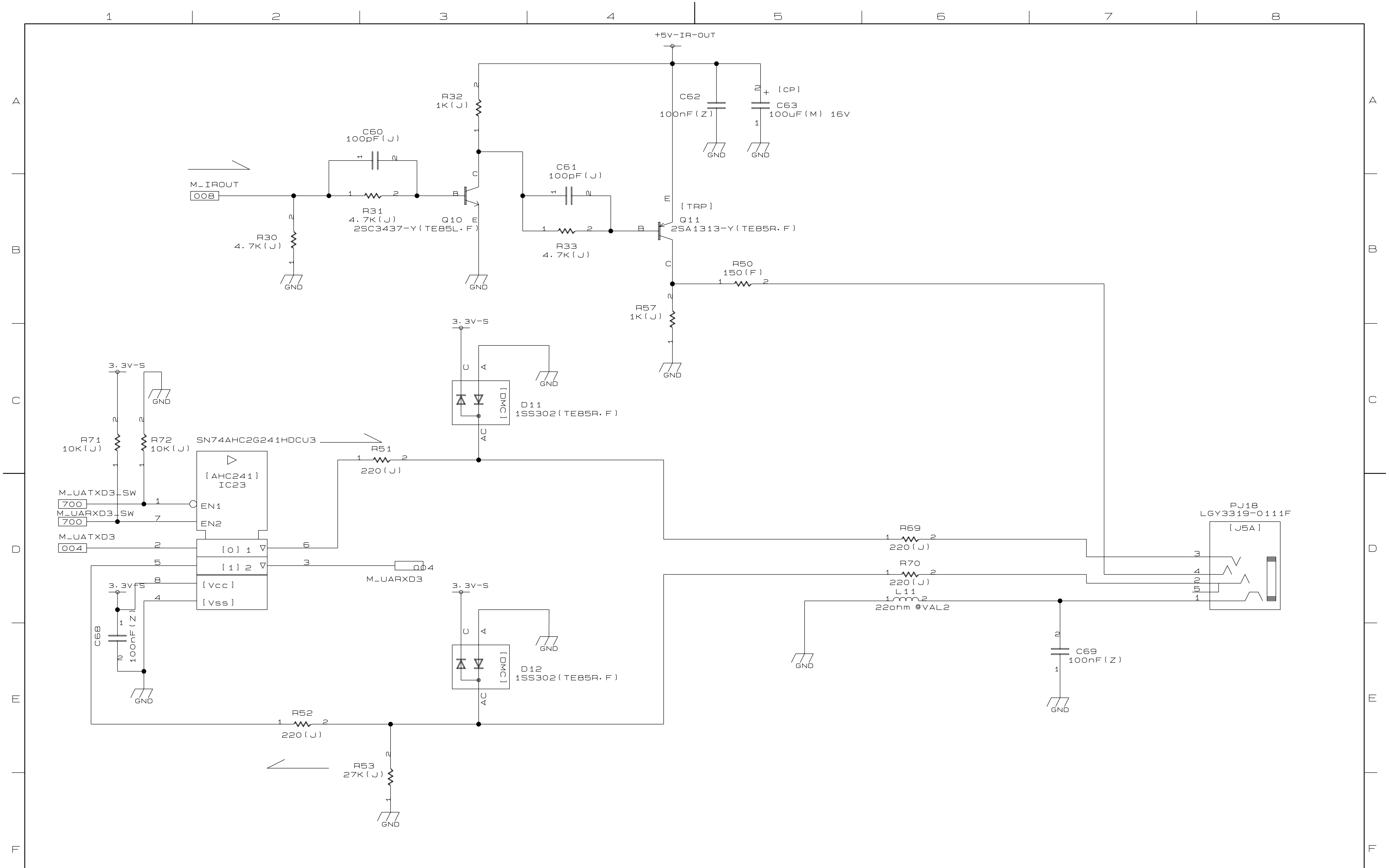
42/50HP95
SEIN FPD FULL NON LAN
M-SYSTEM(NANDFLASHROM)

SH. NO.
7



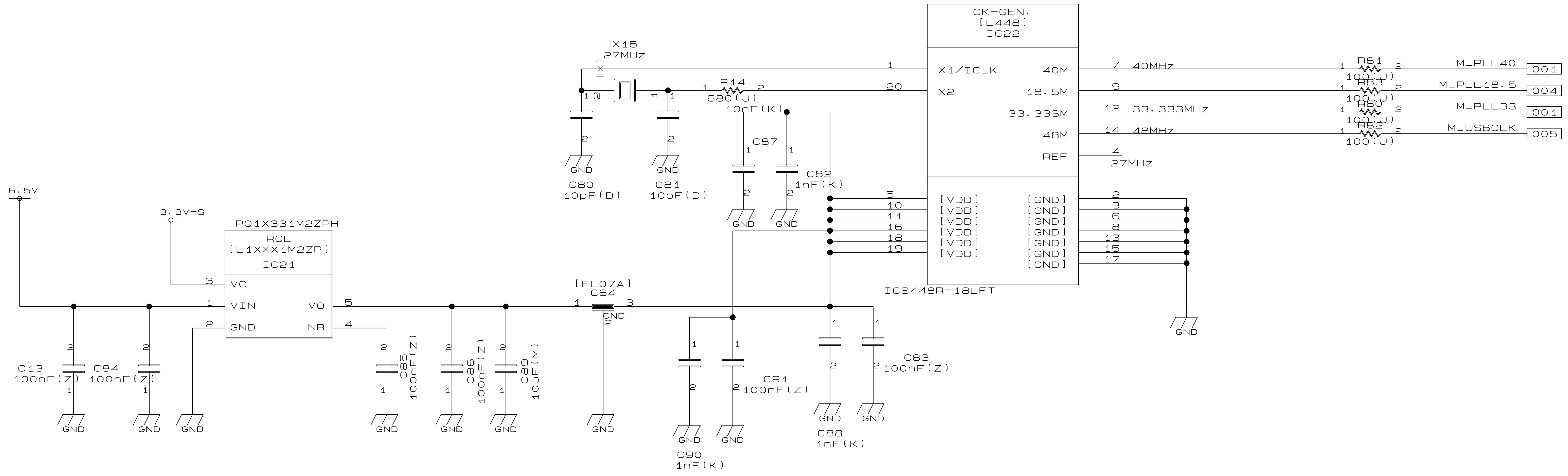
42/50HP95
SEIN FPD FULL NON LAN
IR

SH. NO.
8



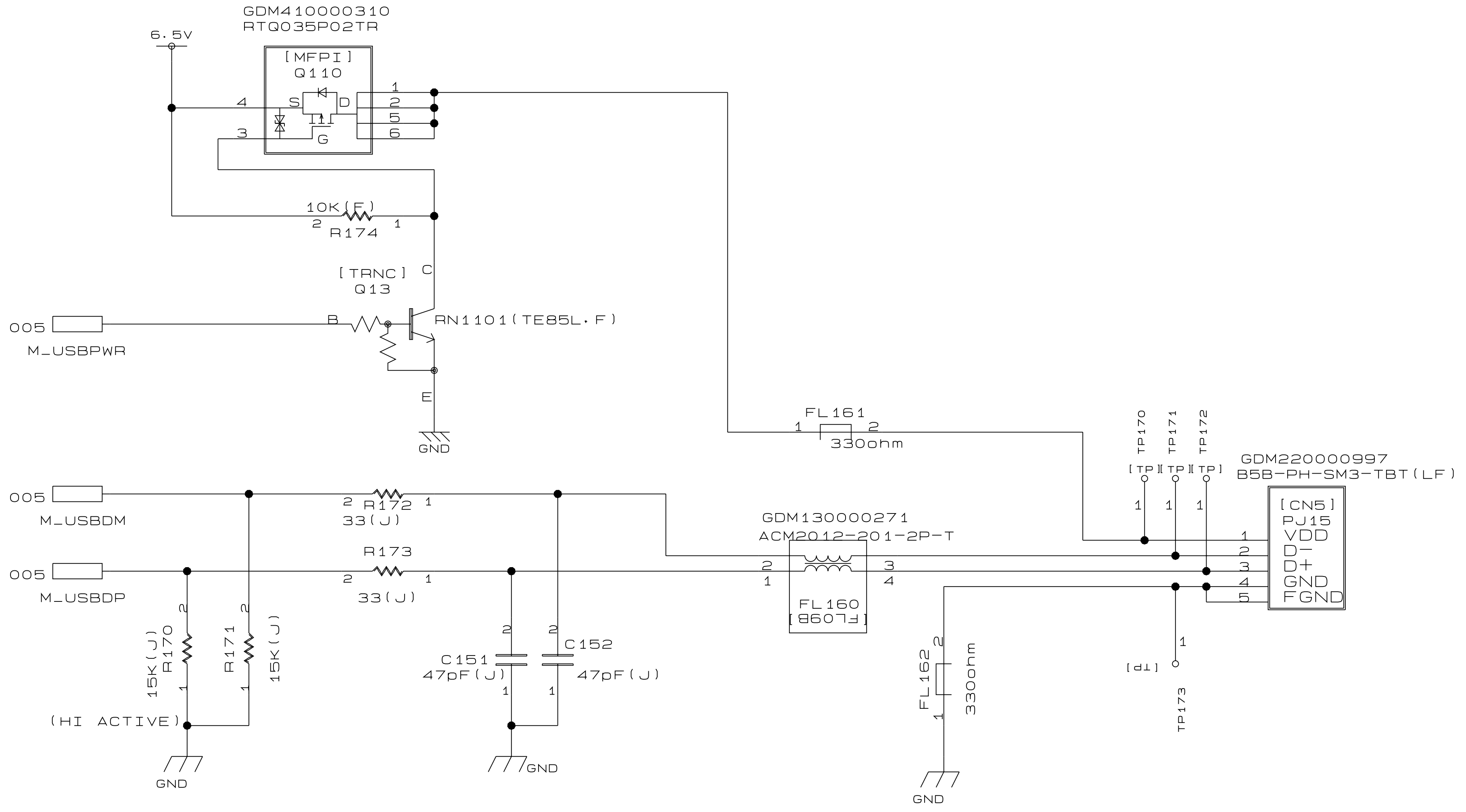
42/50HP95
SEIN FPD FULL NON LAN
GLINK IR-OUT

SH. NO.
9



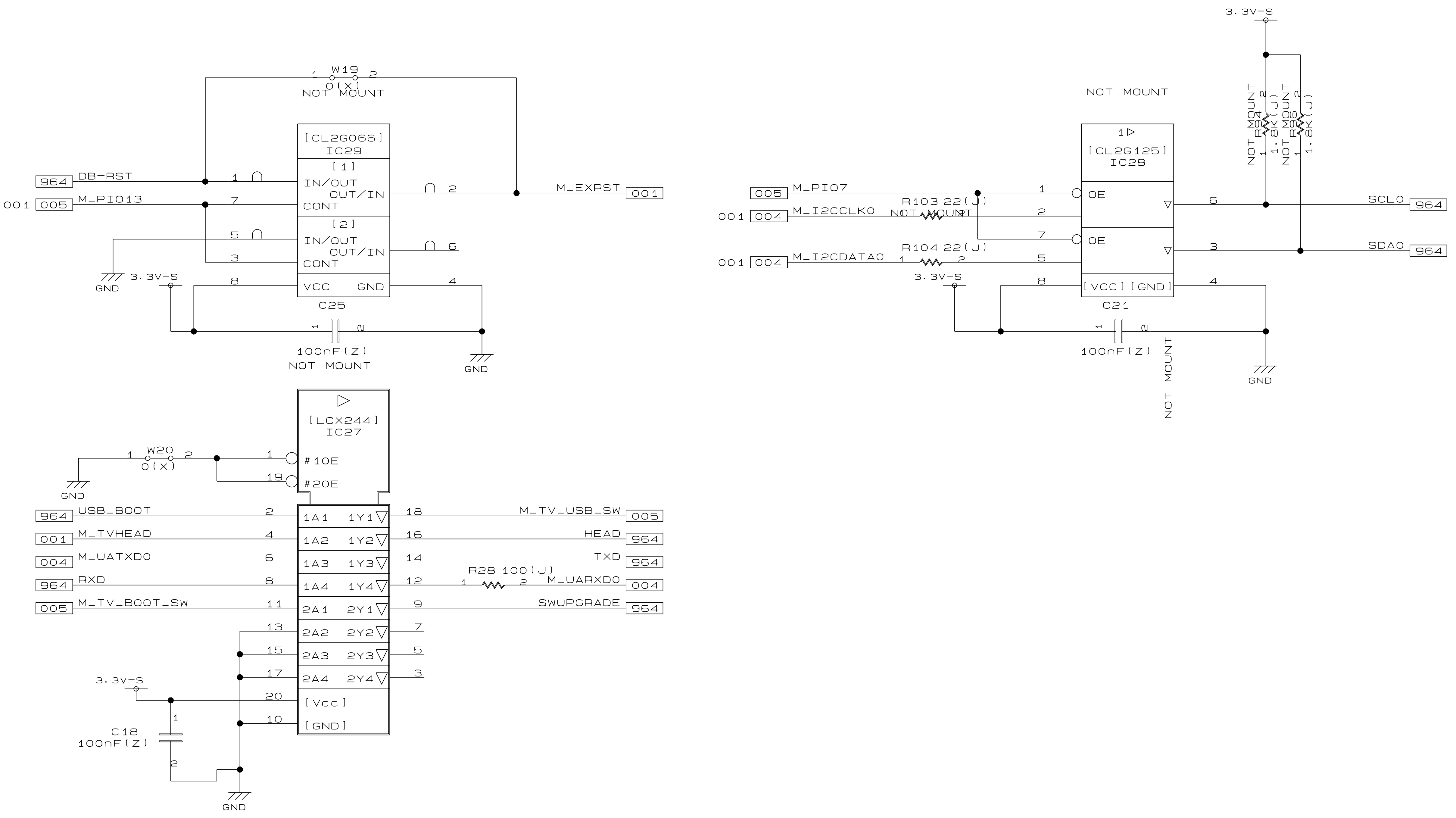
42/50HP95
SEIN FPD FULL NON LAN
CLOCK GEN.

SH. NO.
10



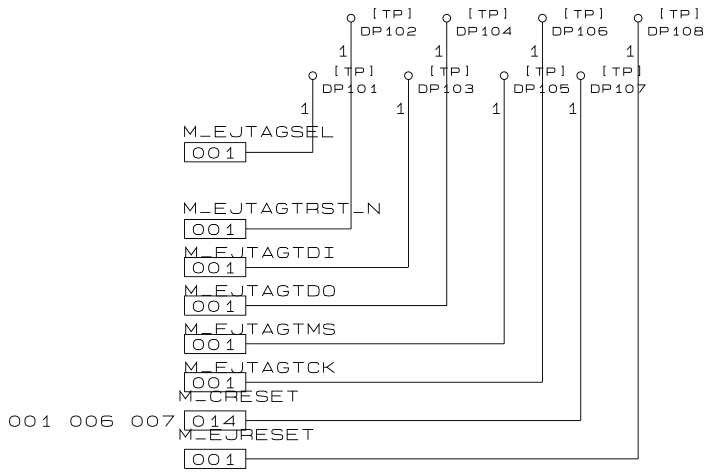
42/50HP95
SEIN FPD FULL NON LAN
USB I/F

SH. NO.
11



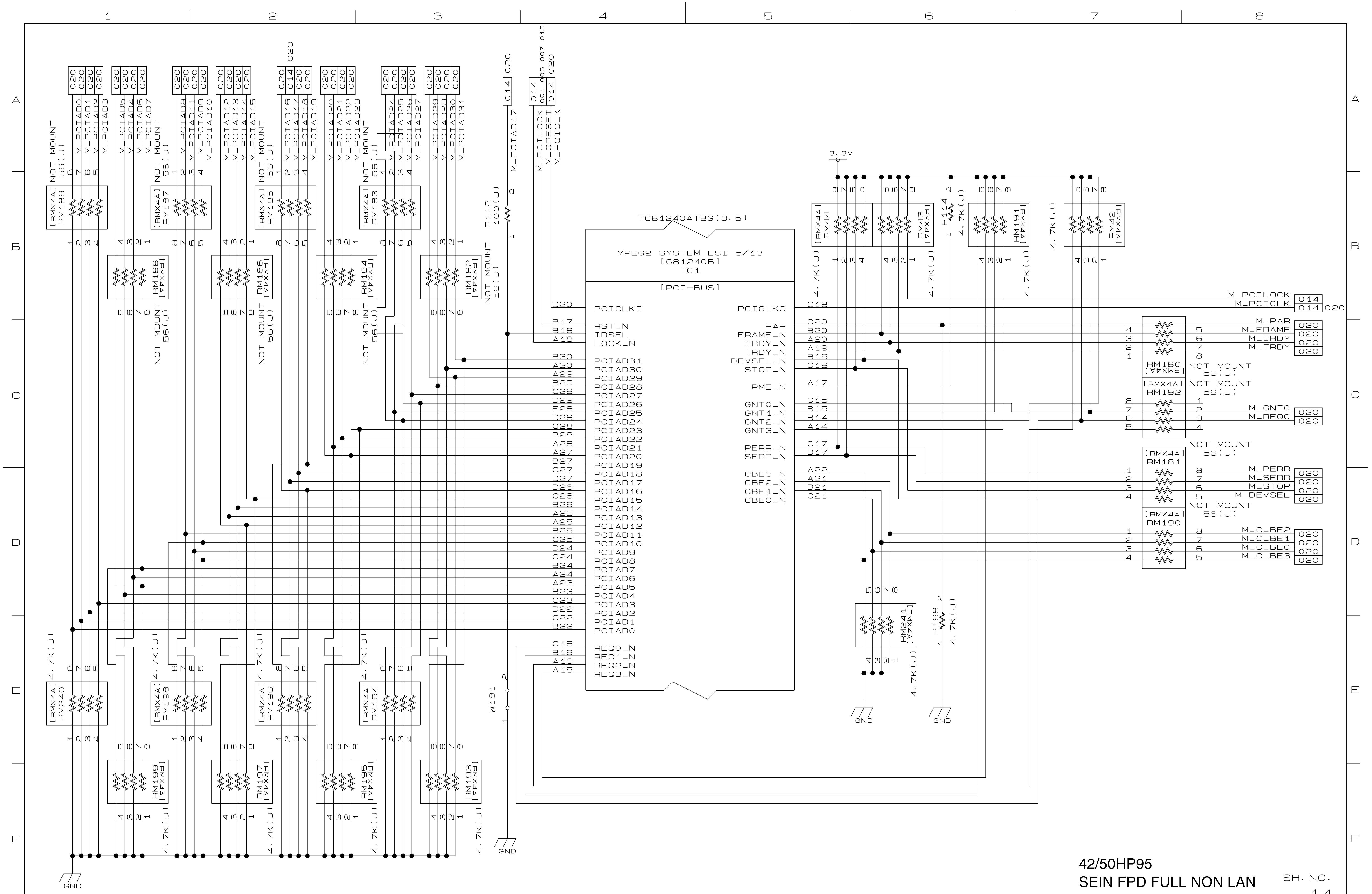
42/50HP95
SEIN FPD FULL NON LAN
UART0 INTERFACE

SH. NO.
12



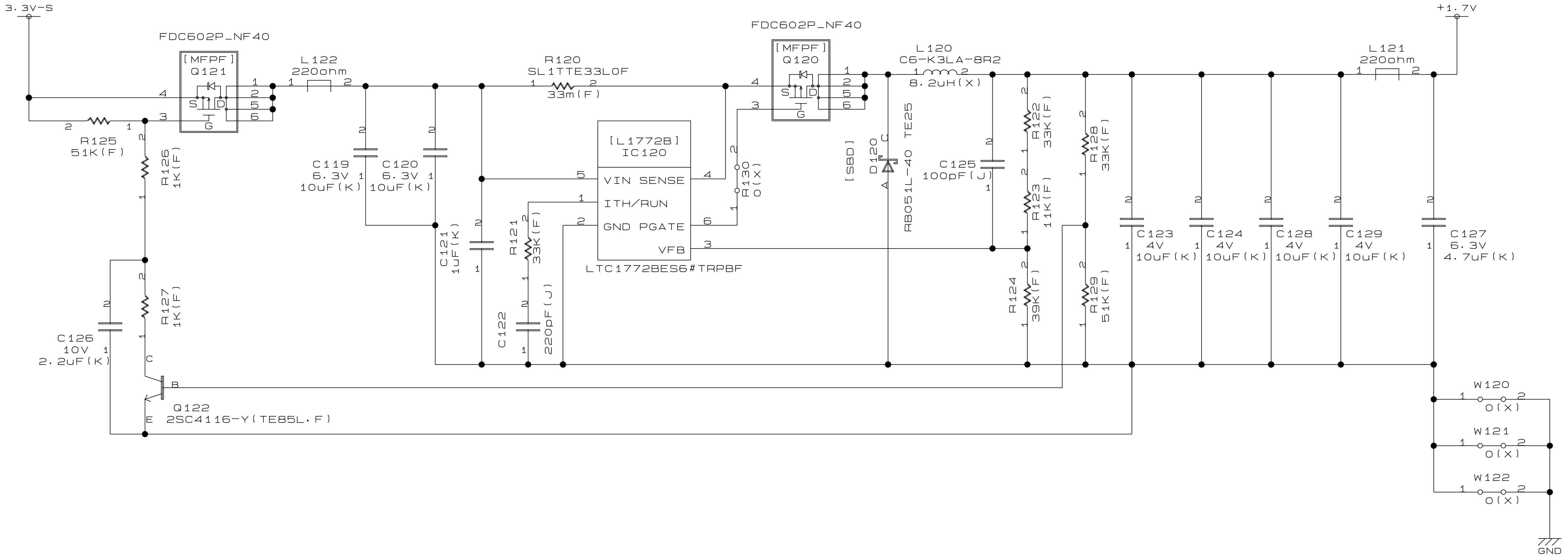
42/50HP95
SEIN FPD FULL NON LAN
EJTAG CONNECTOR

SH. NO.
13



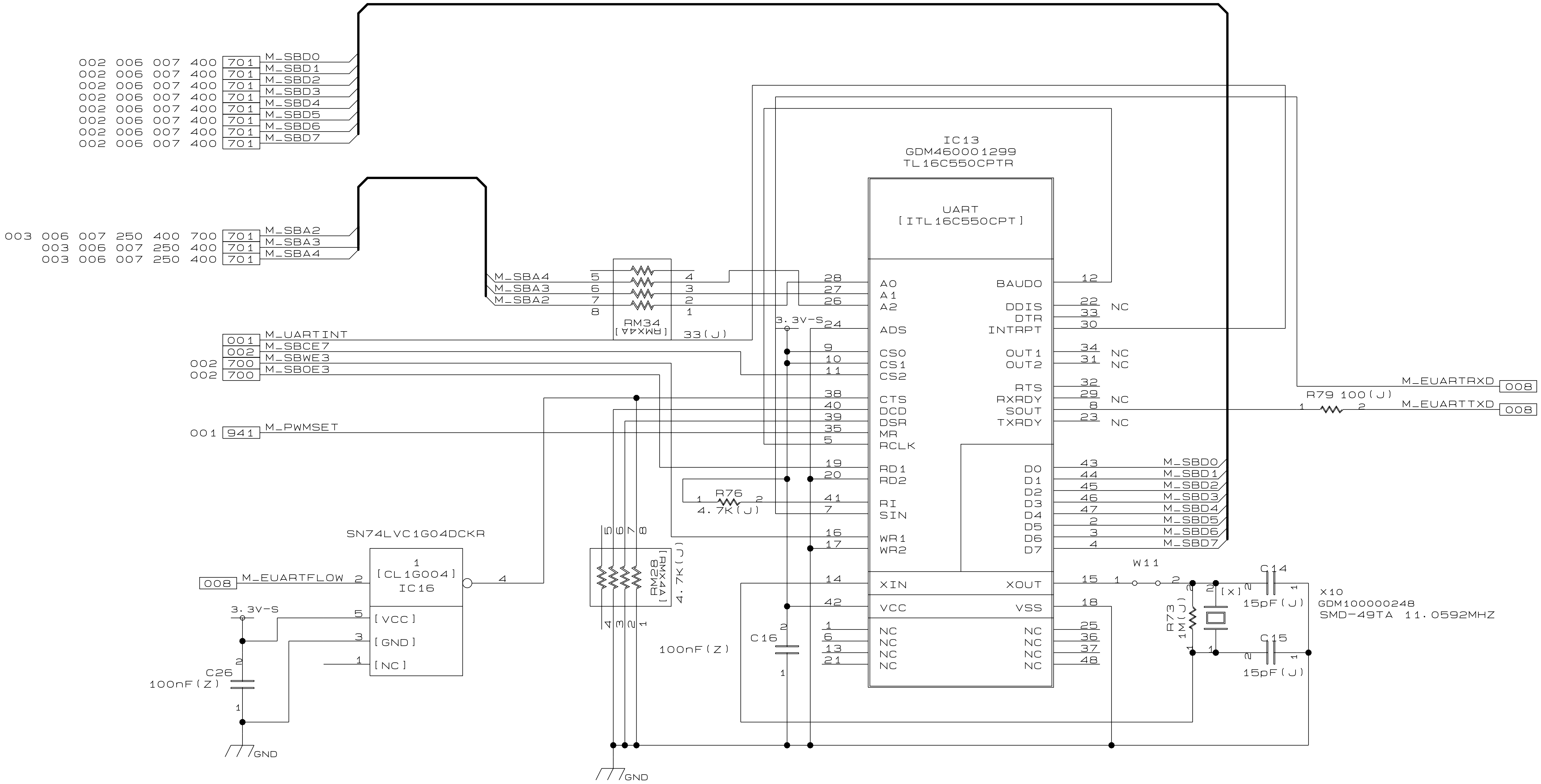
42/50HP95
SEIN FPD FULL NON LAN
SEINE PCI BUS

SH. NO.
14



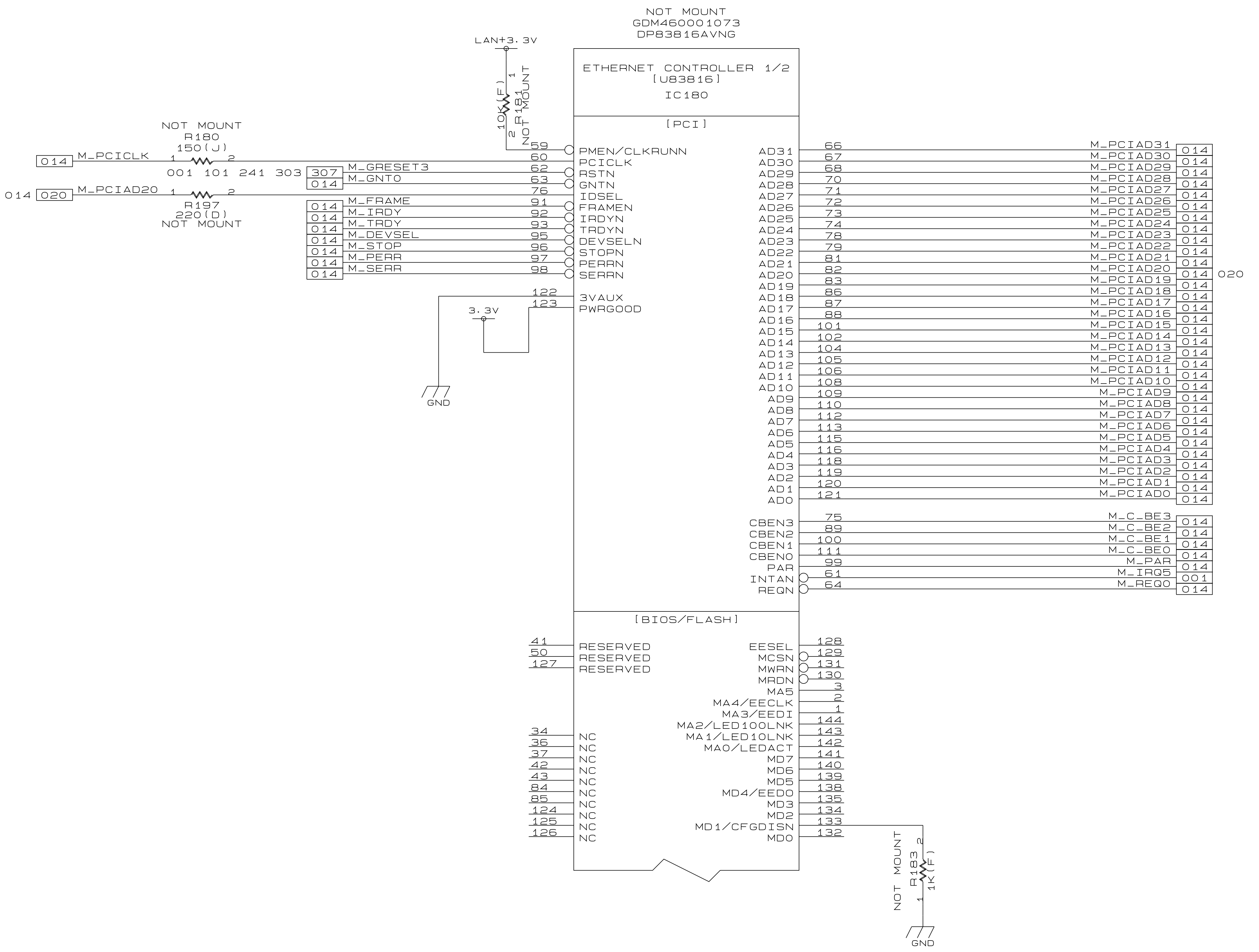
42/50HP95
SEIN FPD FULL NON LAN
MPU POWER

SH. NO.
016



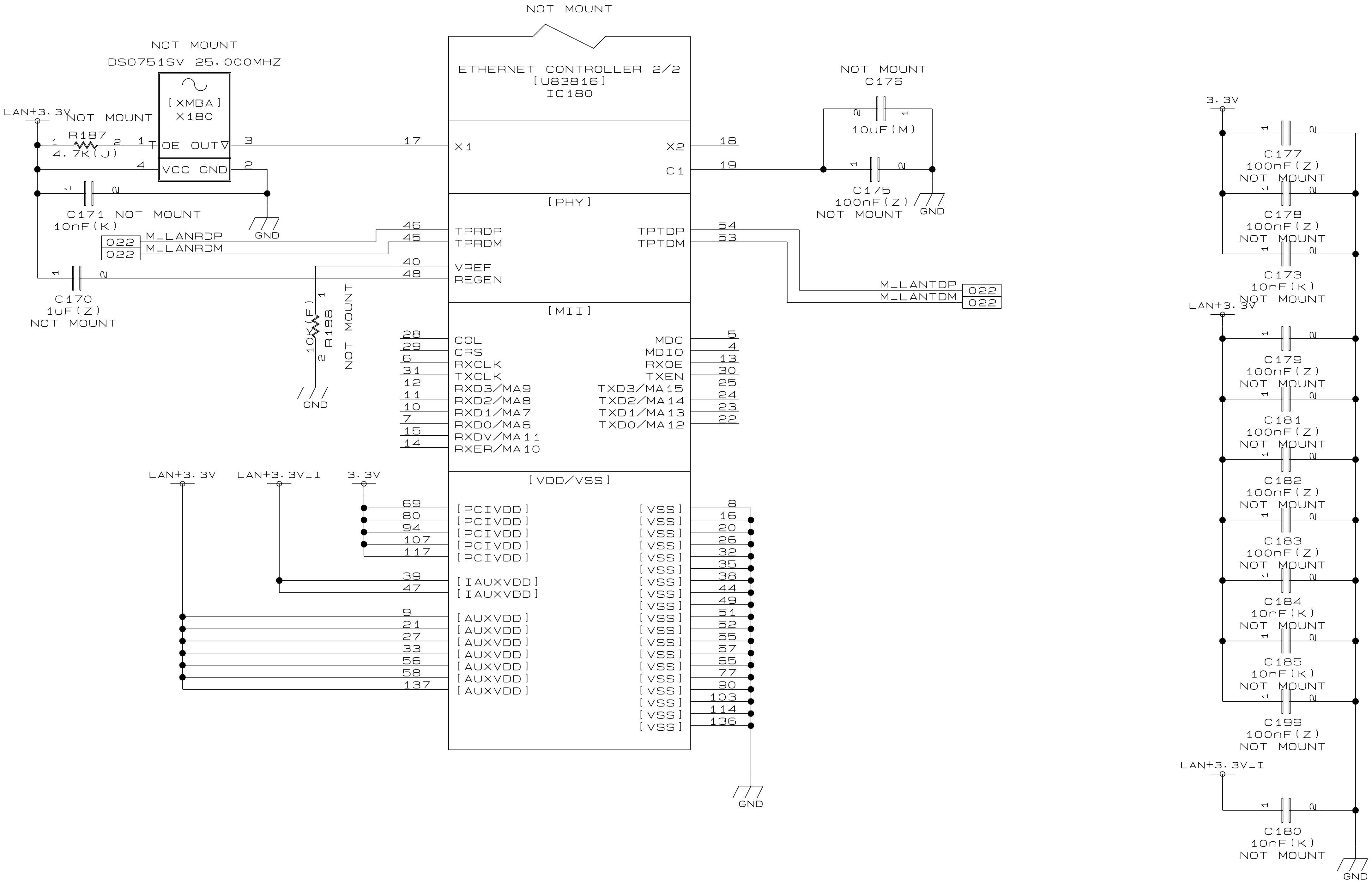
42/50HP95
SEIN FPD FULL NON LAN
Ext UART

SH. NO.
17



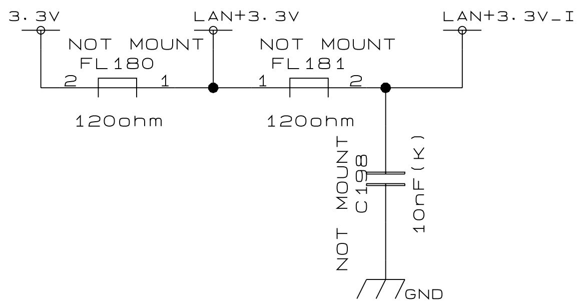
42/50HP95
SEIN FPD FULL NON LAN
MACPHYTER 1 (1/2)

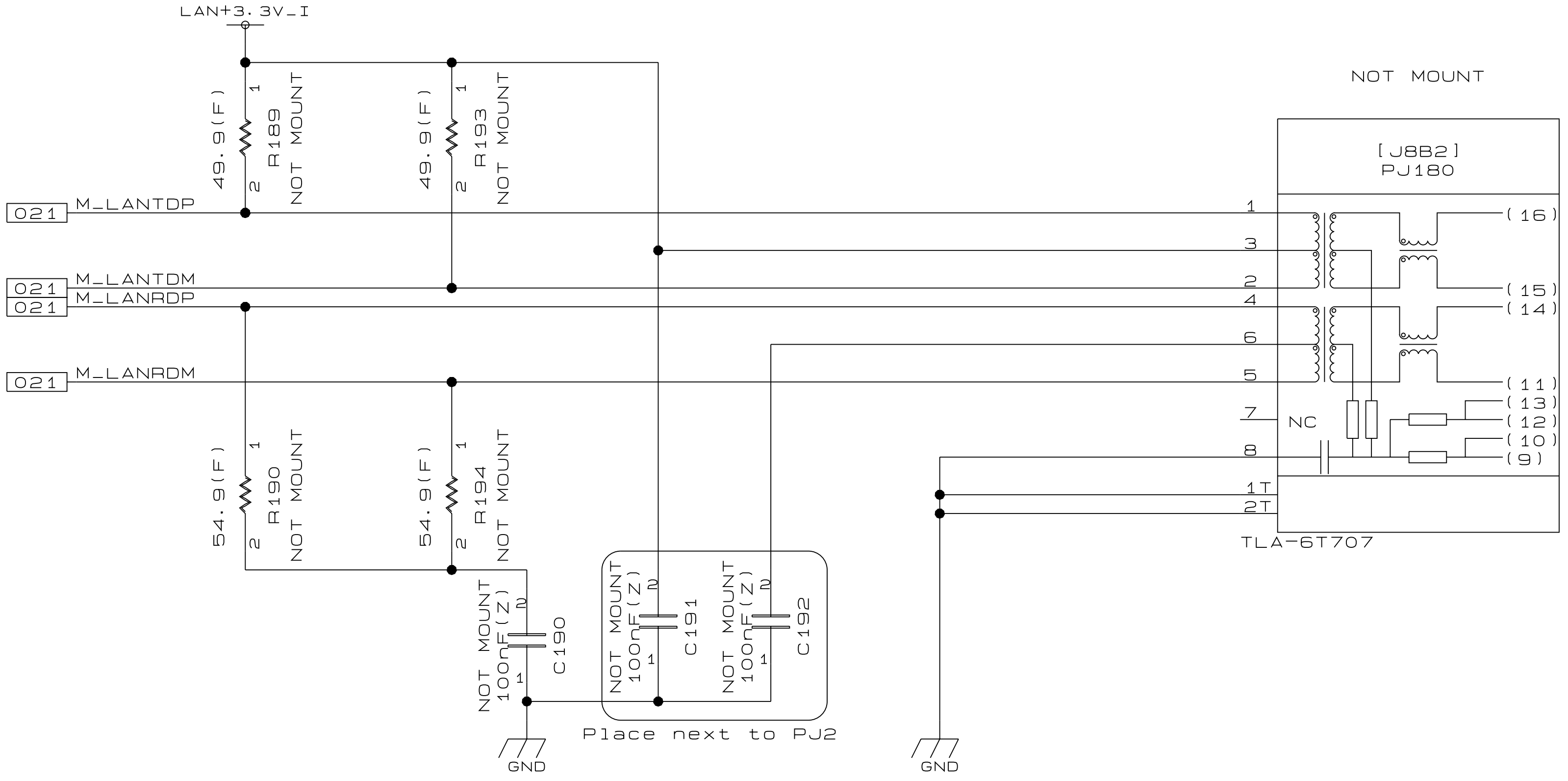
SH. NO.
20



42/50HP95
SEIN FPD FULL NON LAN
MACPHYTER 1 (2/2)

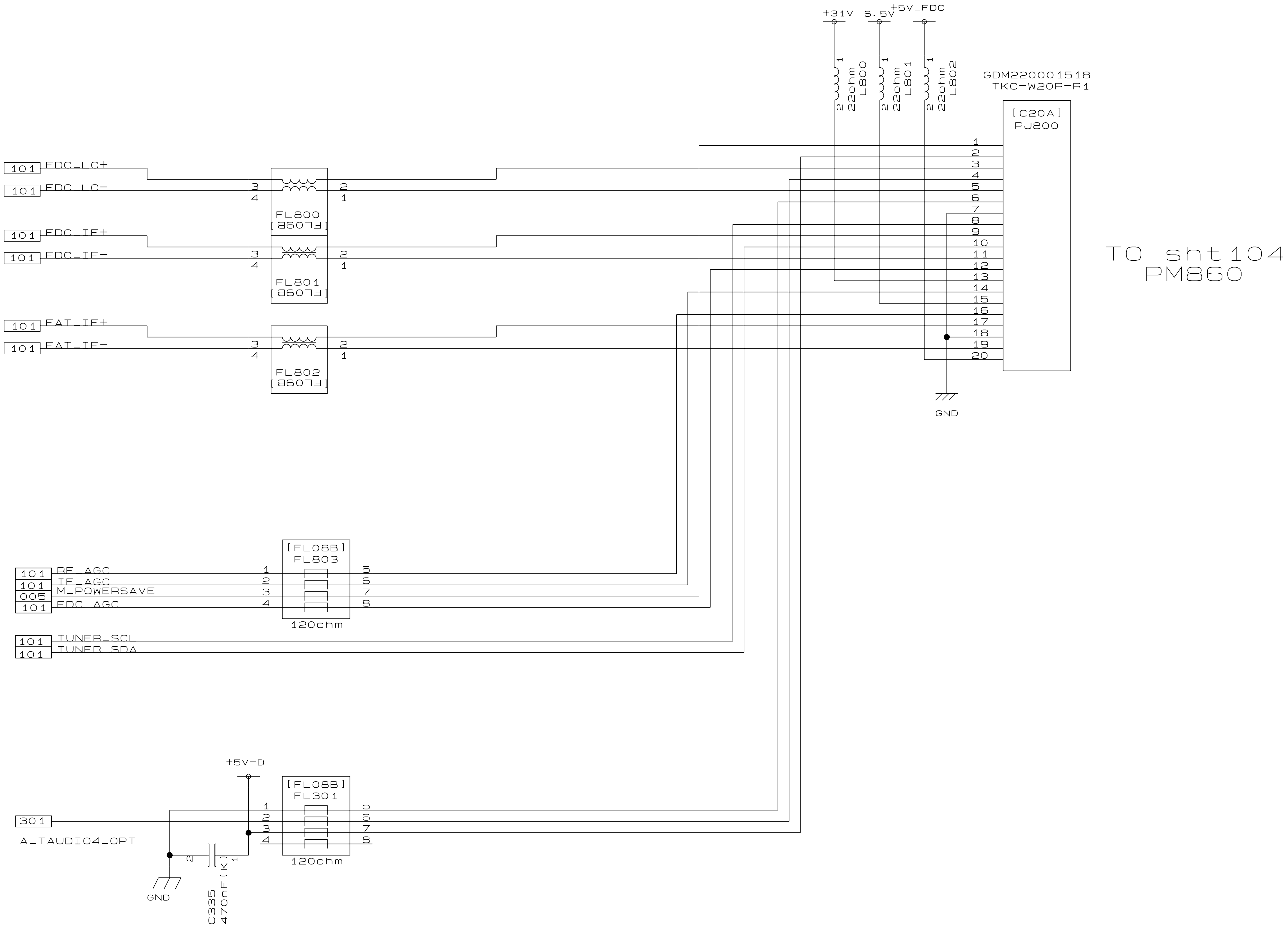
SH. NO.
21





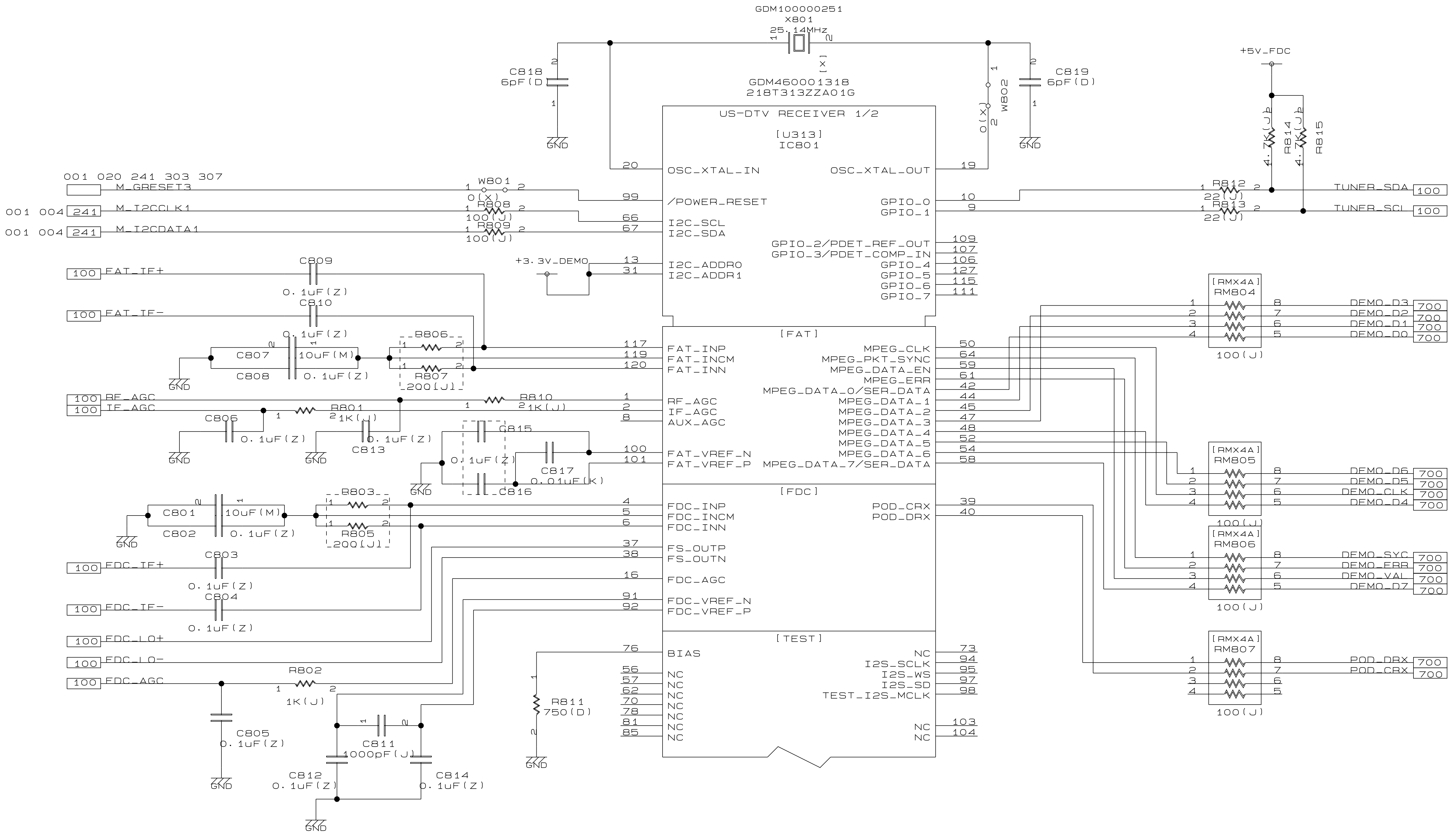
42/50HP95
SEIN FPD FULL NON LAN
RJ45

SH. NO.
22



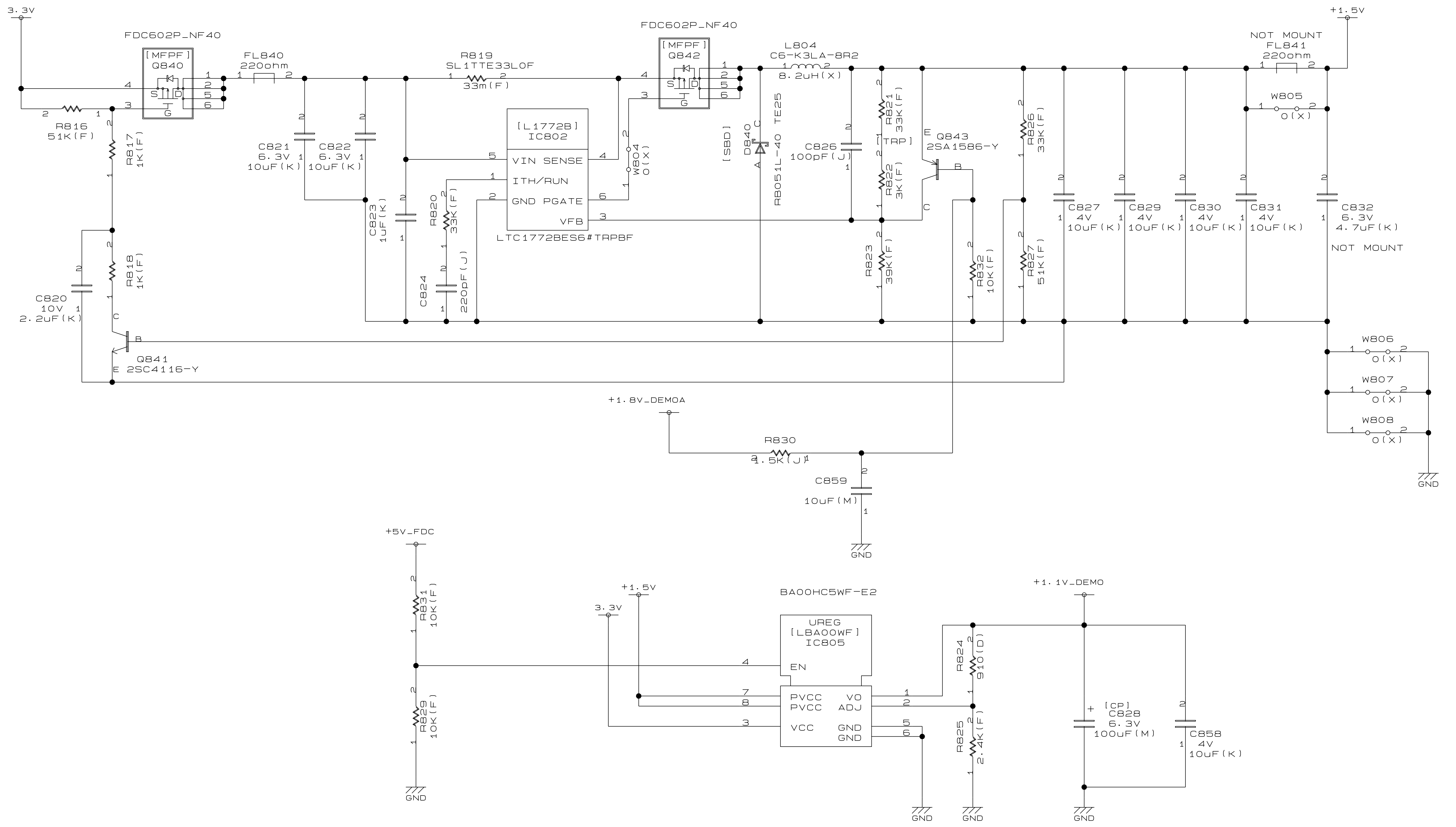
42/50HP95
SEIN FPD FULL NON LAN
TUENR CONNECTOR

SH. NO.
100



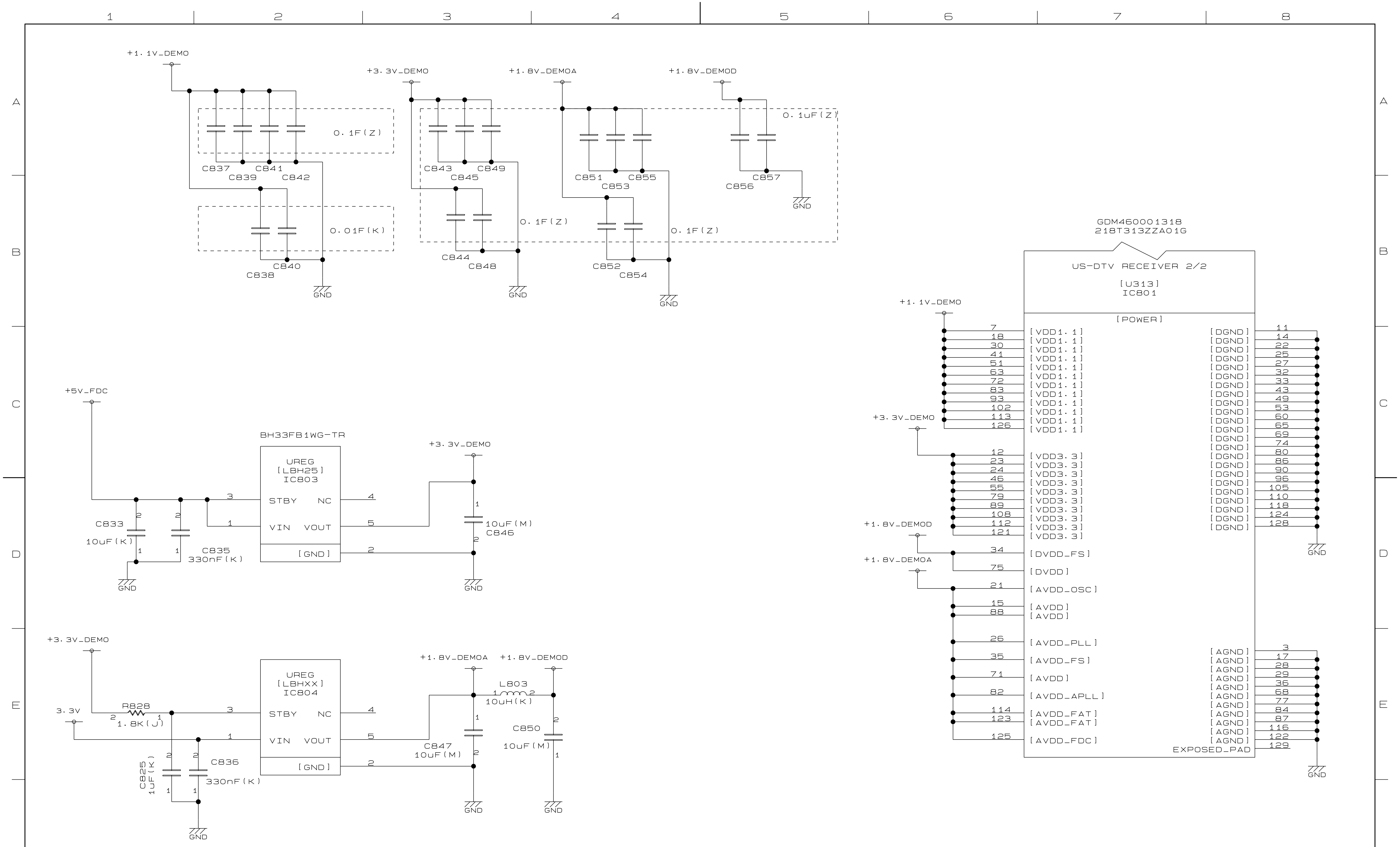
42/50HP95
SEIN FPD FULL NON LAN
T313(Signal)

SH. NO.
101



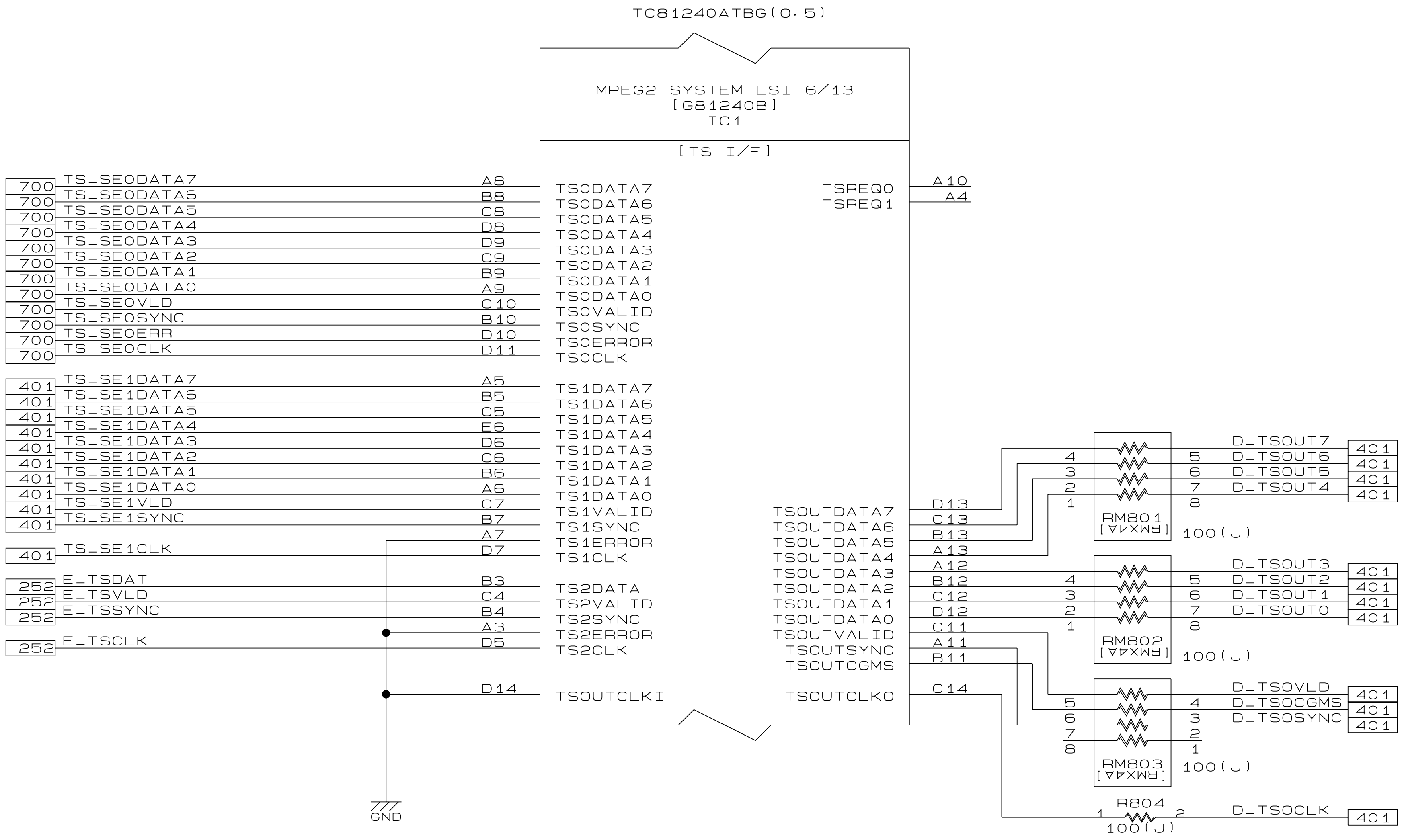
42/50HP95
SEIN FPD FULL NON LAN
1.1VRegulator

SH. NO.
102



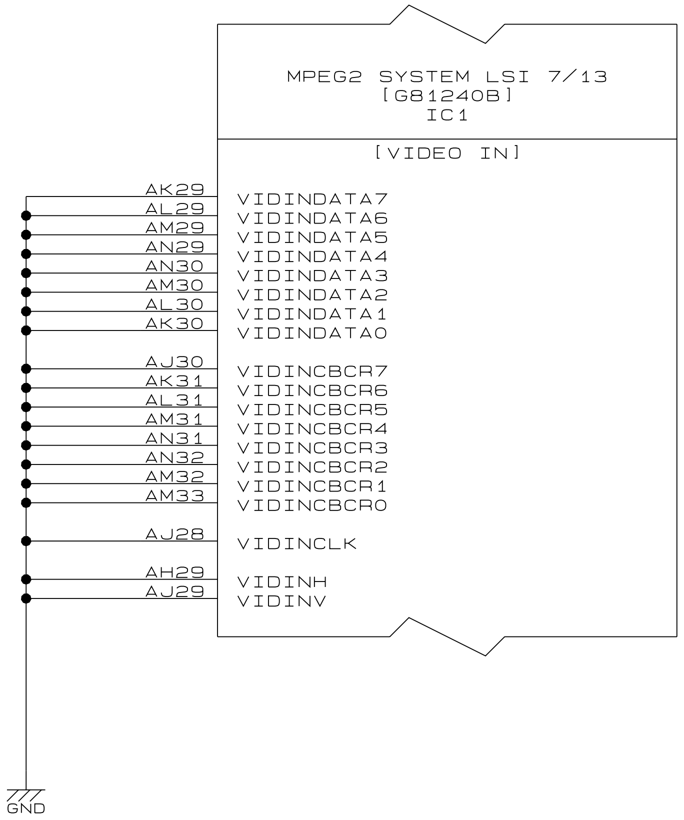
42/50HP95
SEIN FPD FULL NON LAN
T313(Power)

SH. NO.
103



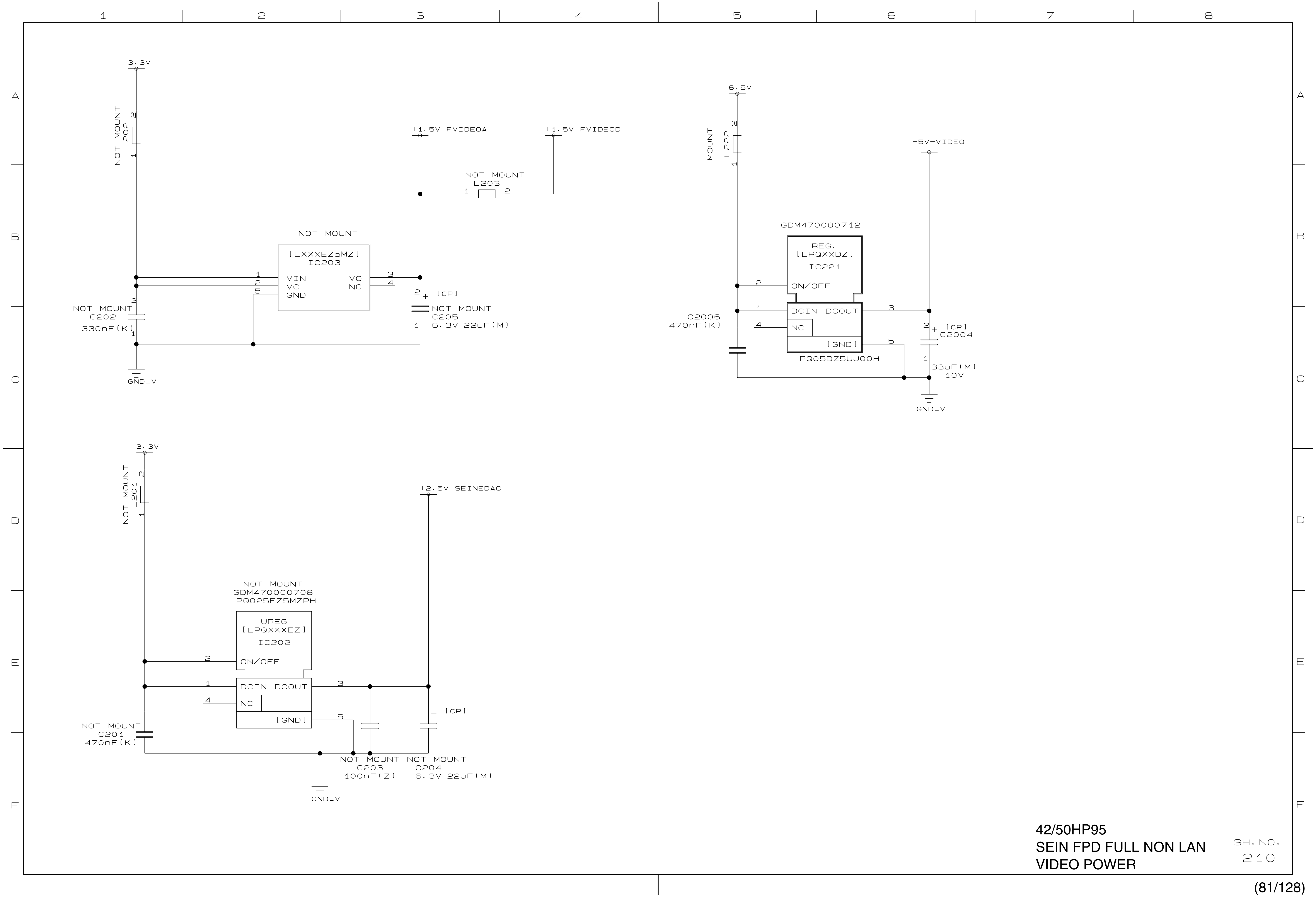
42/50HP95
SEIN FPD FULL NON LAN
Seine TS I/F

SH. NO.
150



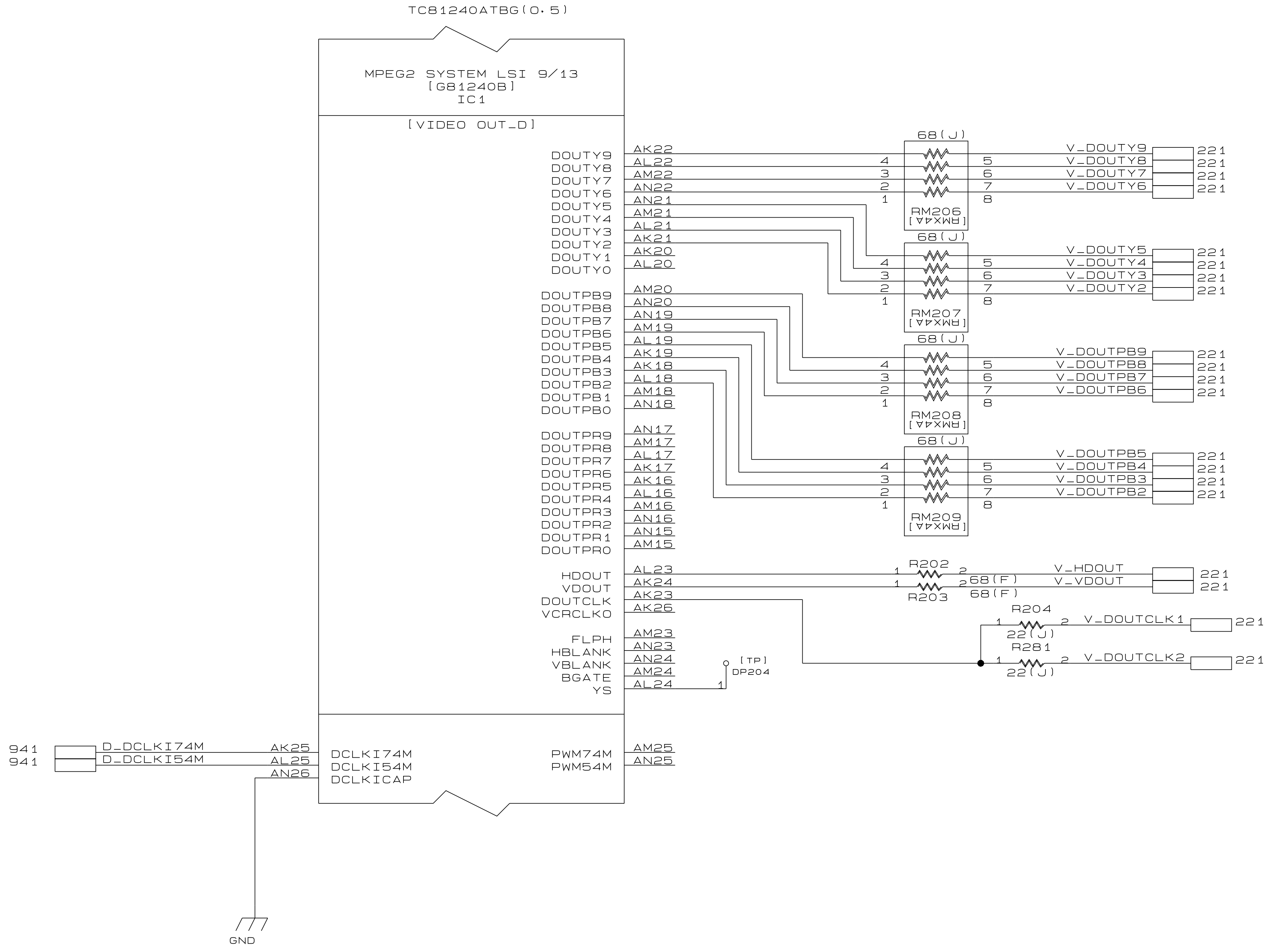
42/50HP95
SEIN FPD FULL NON LAN
SEINE CAPTURE IN

SH. NO.
200



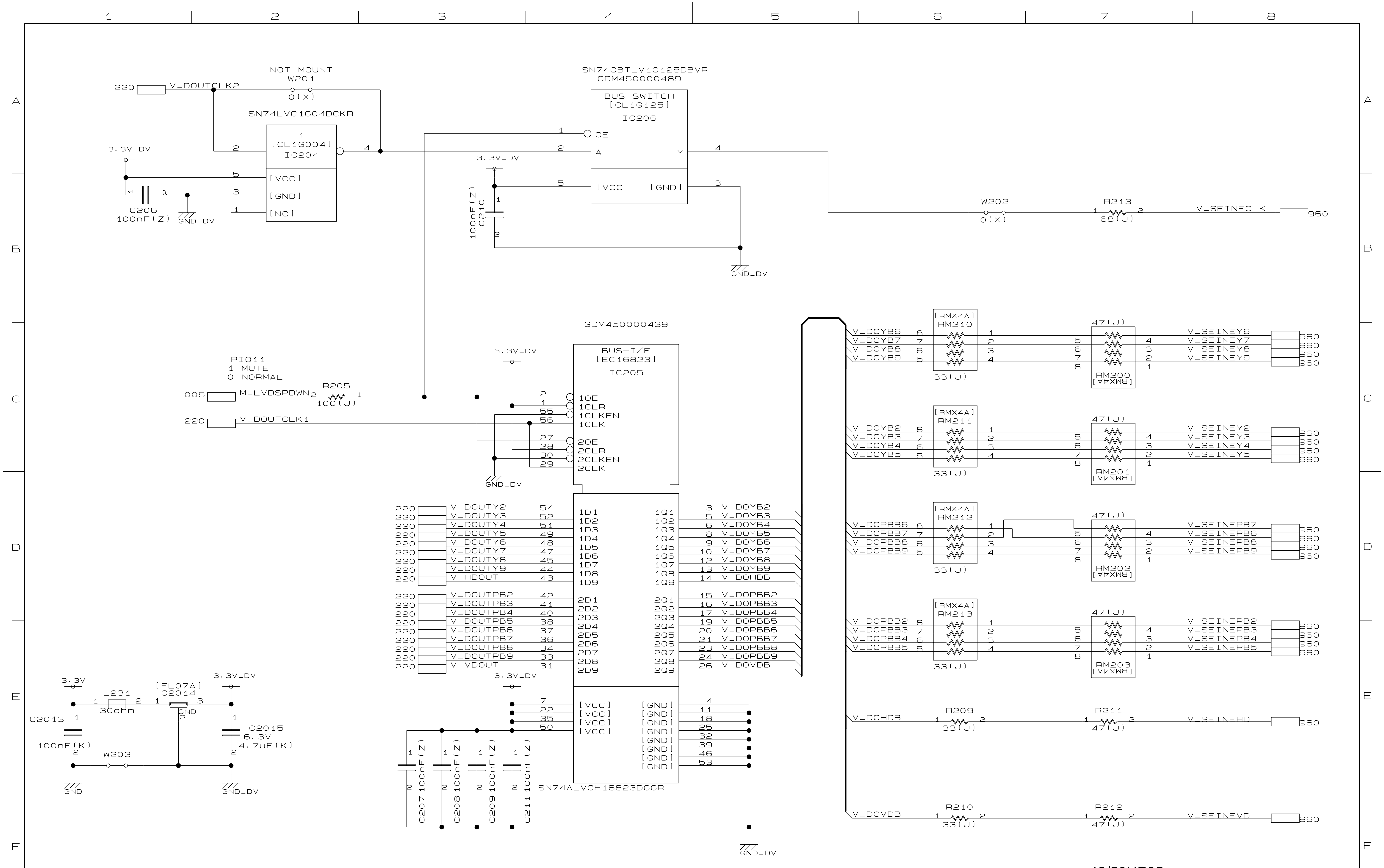
42/50HP95
SEIN FPD FULL NON LAN
VIDEO POWER

SH. NO.
210



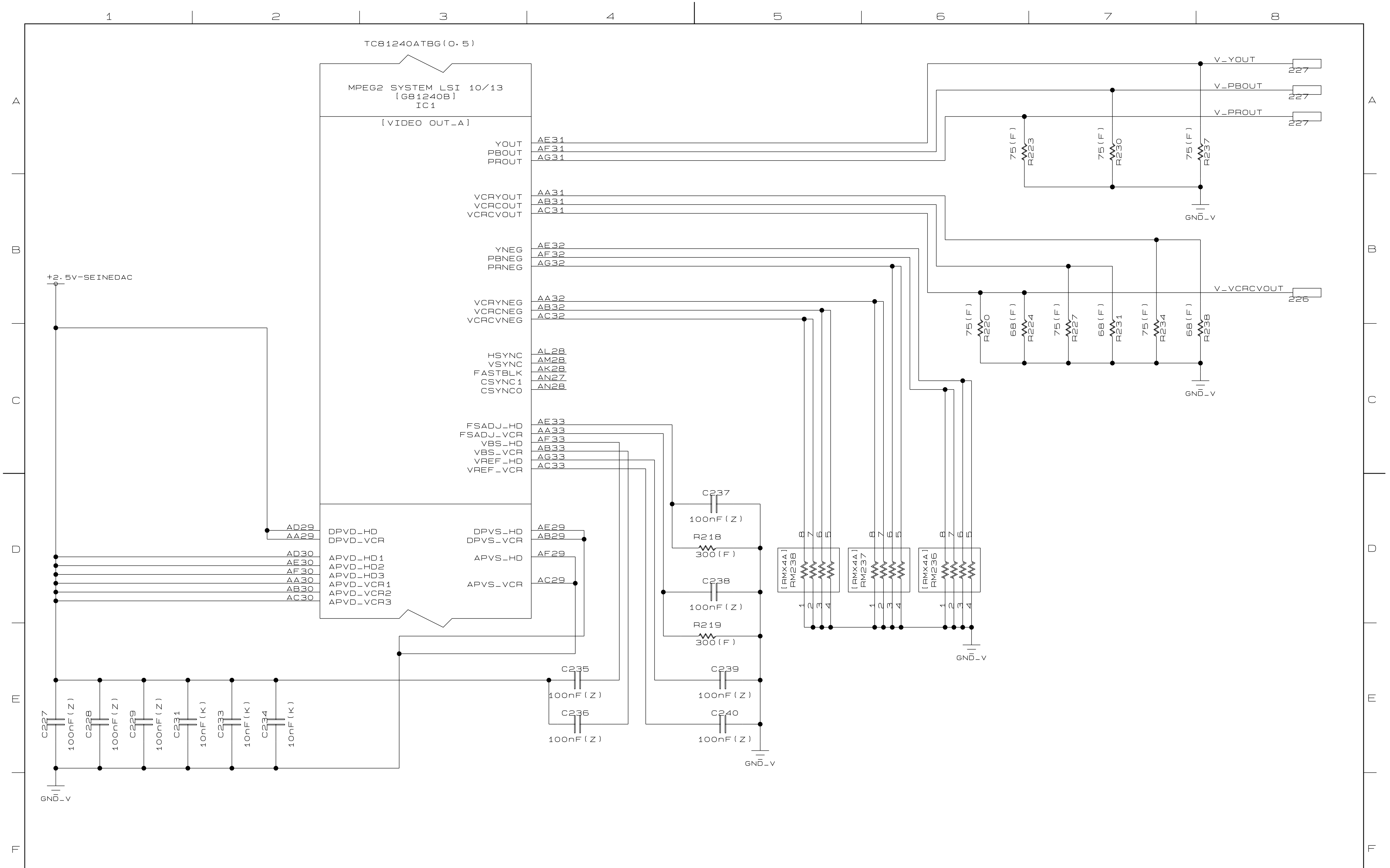
42/50HP95
SEIN FPD FULL NON LAN
SEINE DIGITAL OUT

SH. NO.
220



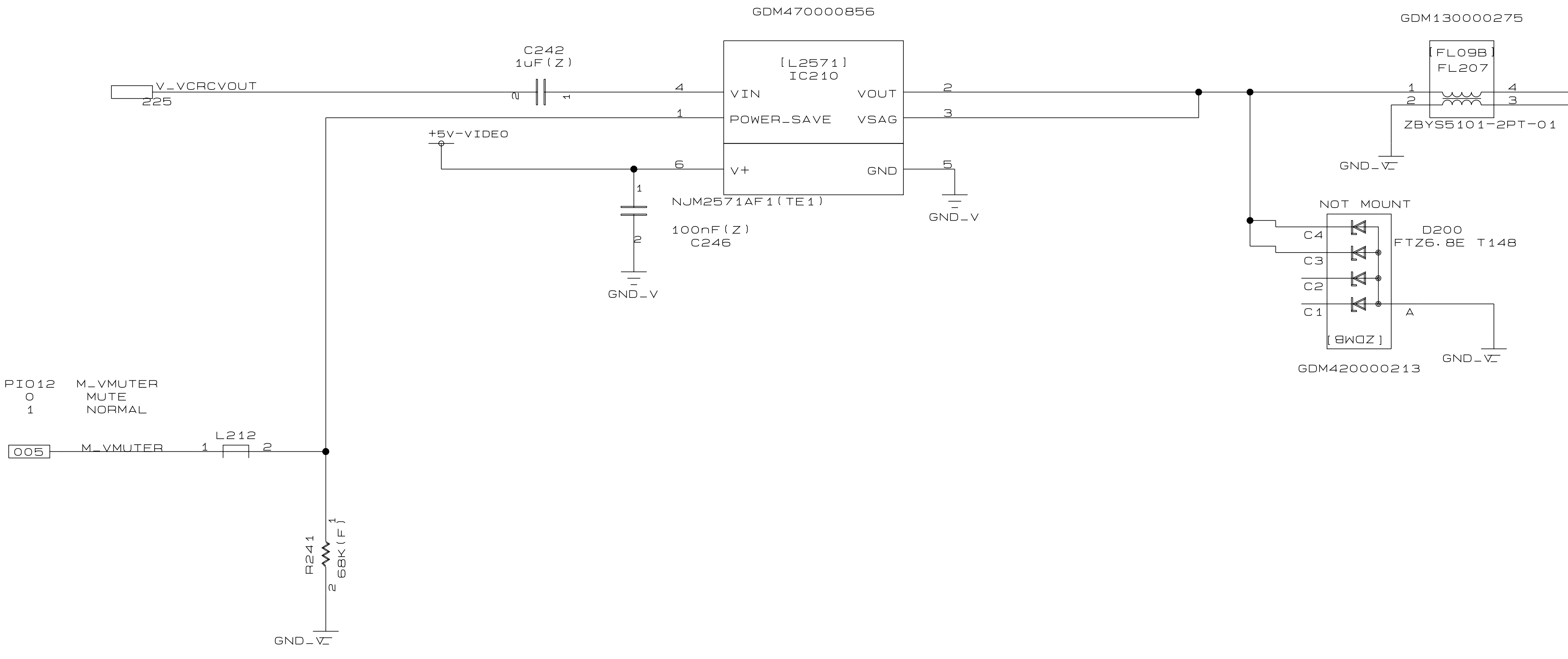
42/50HP95
SEIN FPD FULL NON LAN
SEINE-BEP IF

SH. NO.
221



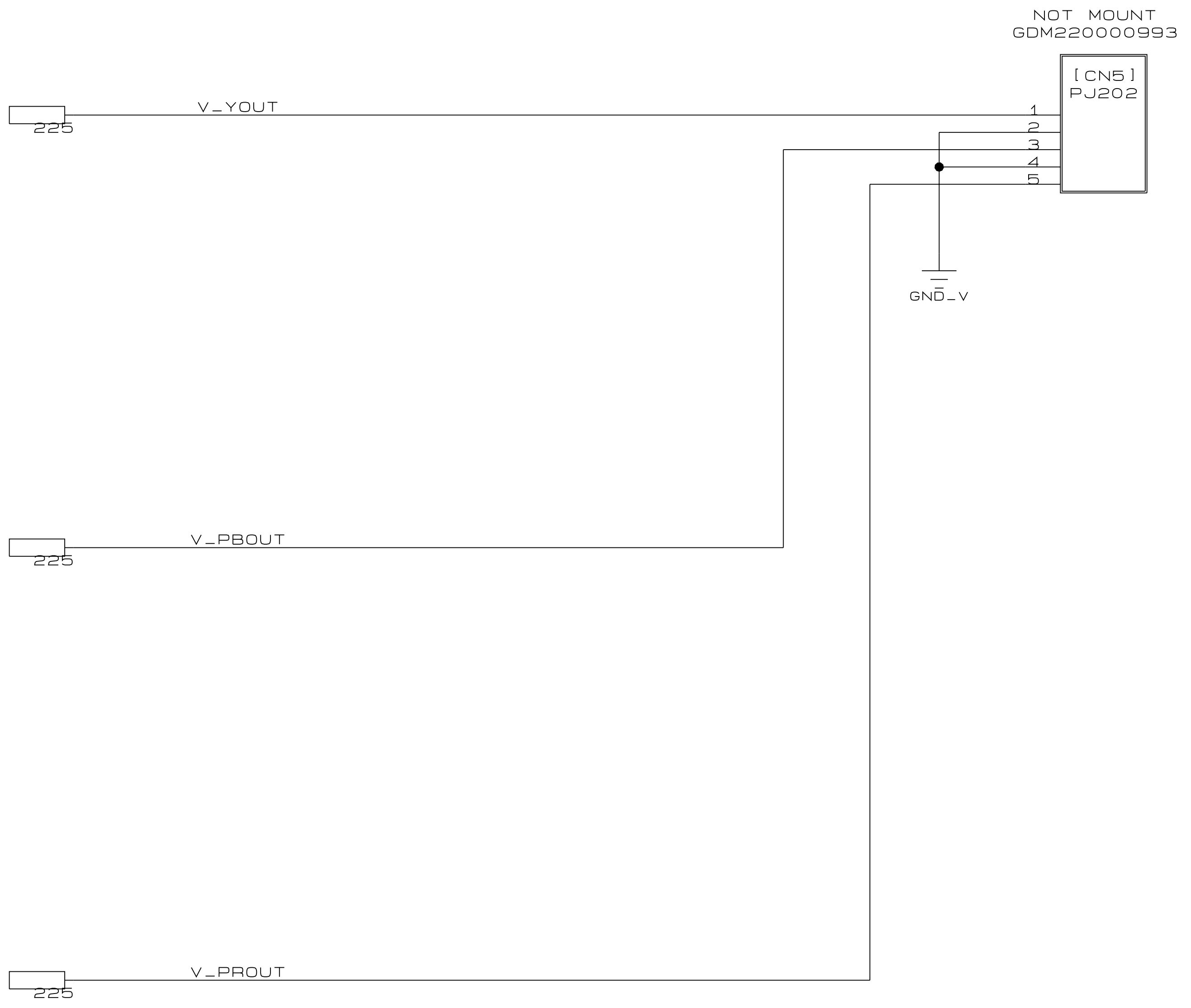
42/50HP95
SEIN FPD FULL NON LAN
SEINE DAC OUT

SH. NO.
225



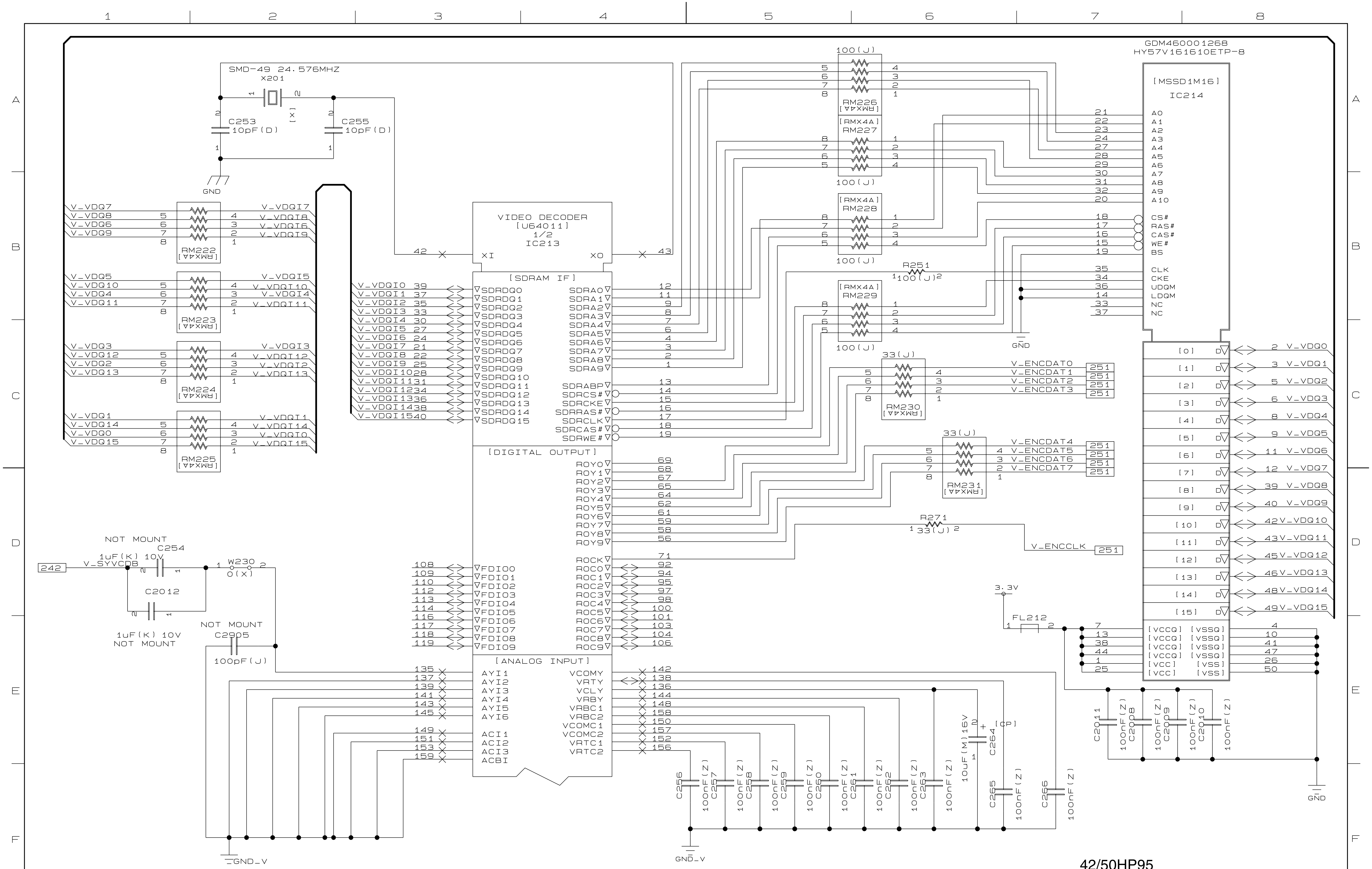
42/50HP95
SEIN FPD FULL NON LAN
DOWN CON OUT DRIVER

SH. NO.
226



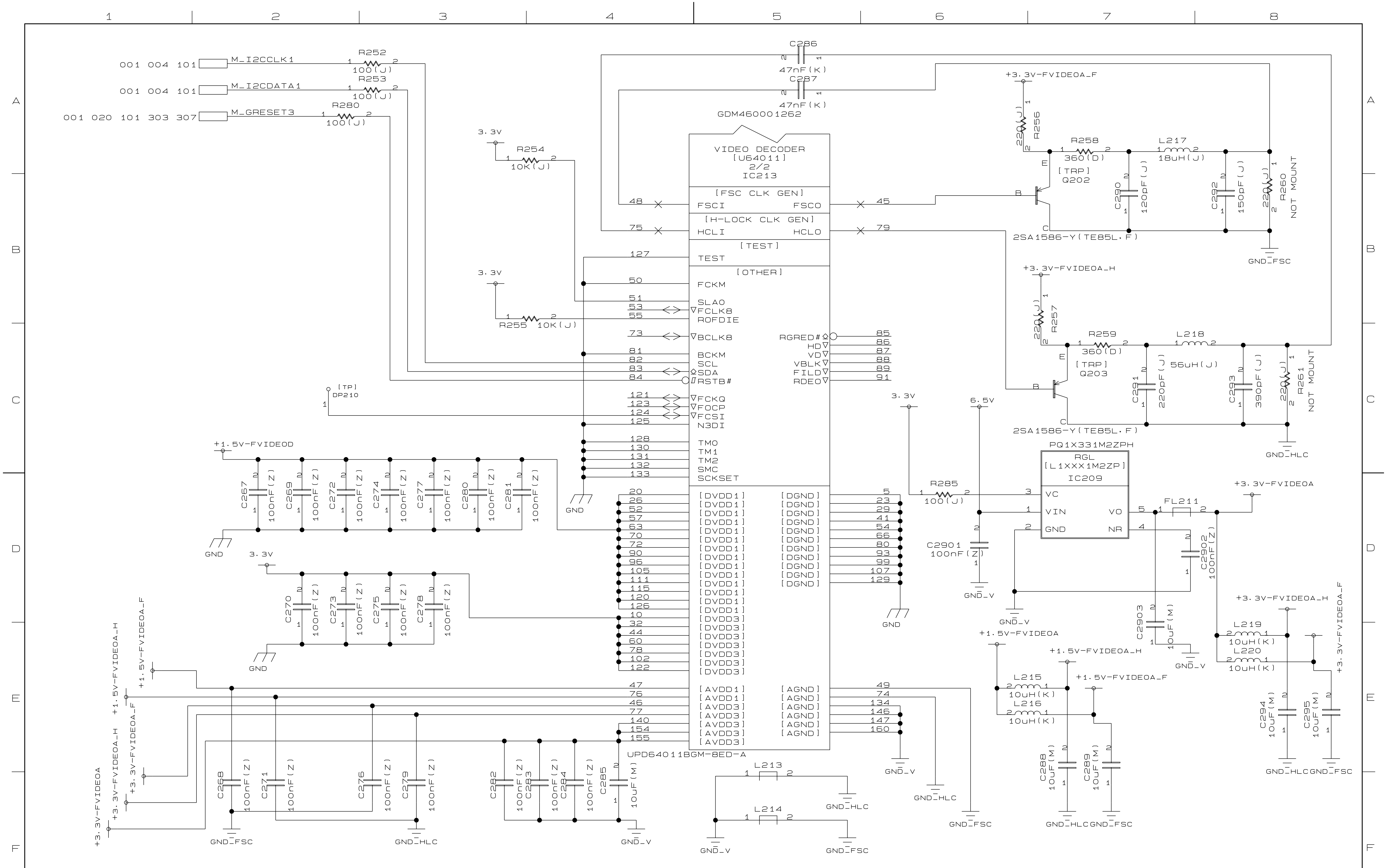
42/50HP95
SEIN FPD FULL NON LAN
HD OUT LPF

SH. NO.
227



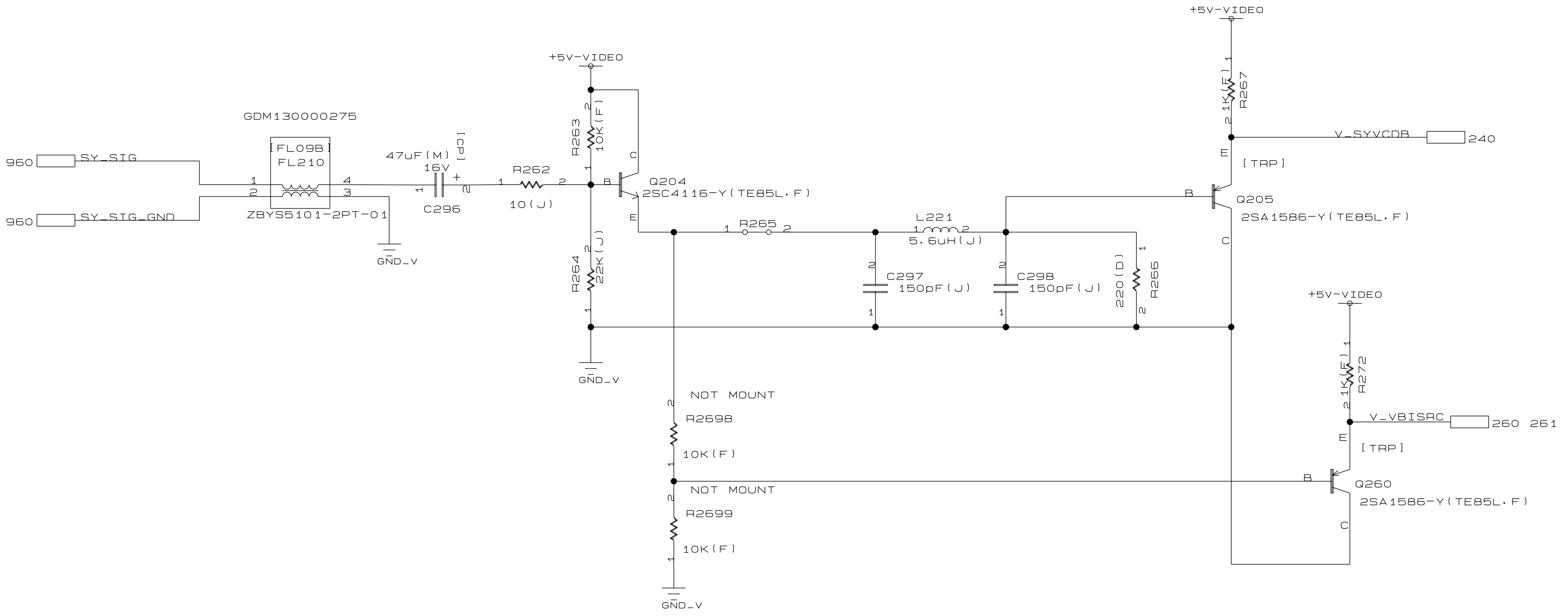
42/50HP95
SEIN FPD FULL NON LAN
MACRO VCD (1/2)

SH. NO.
240



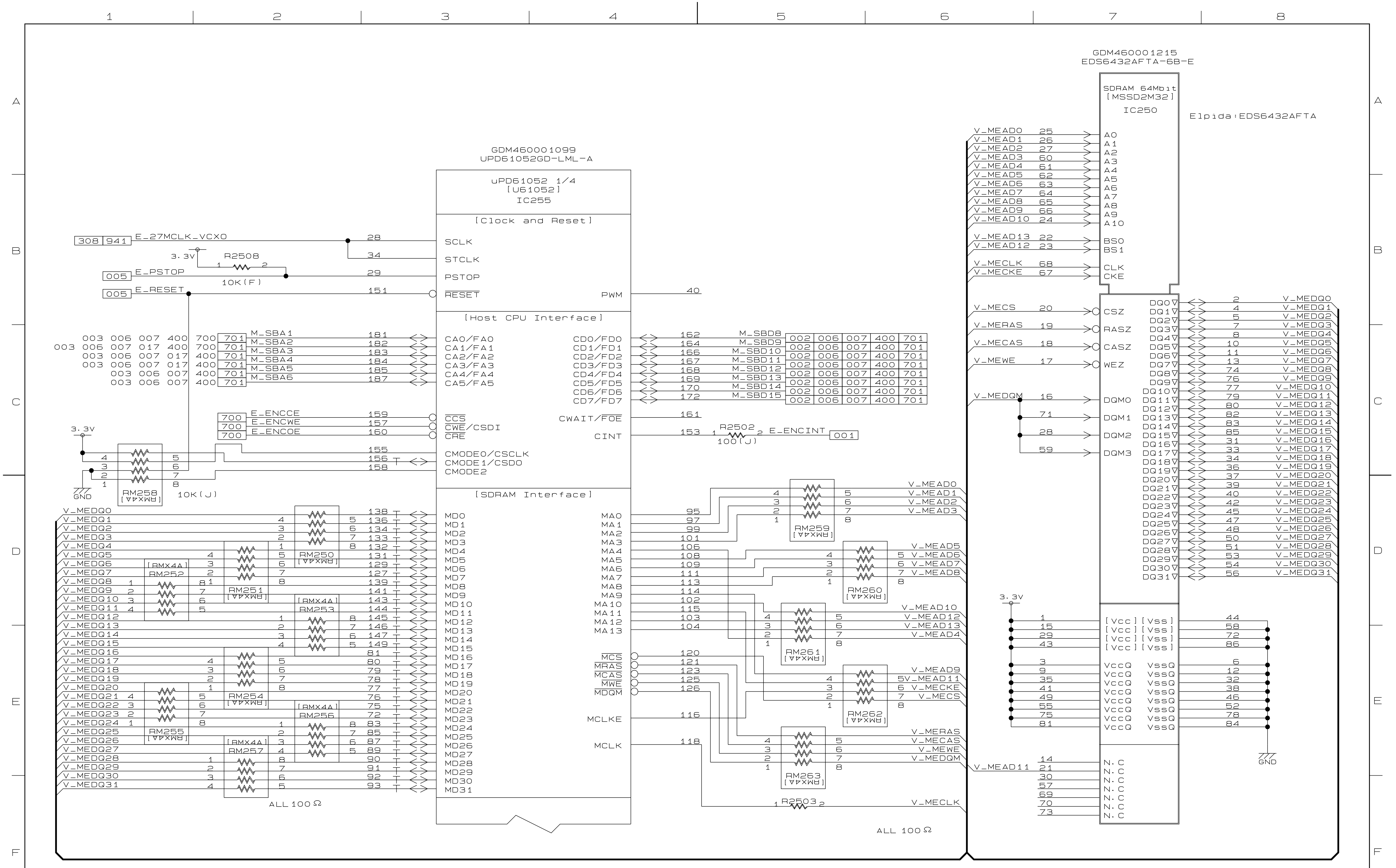
42/50HP95
SEIN FPD FULL NON LAN
MACRO VCD (22)

SH. NO.
241



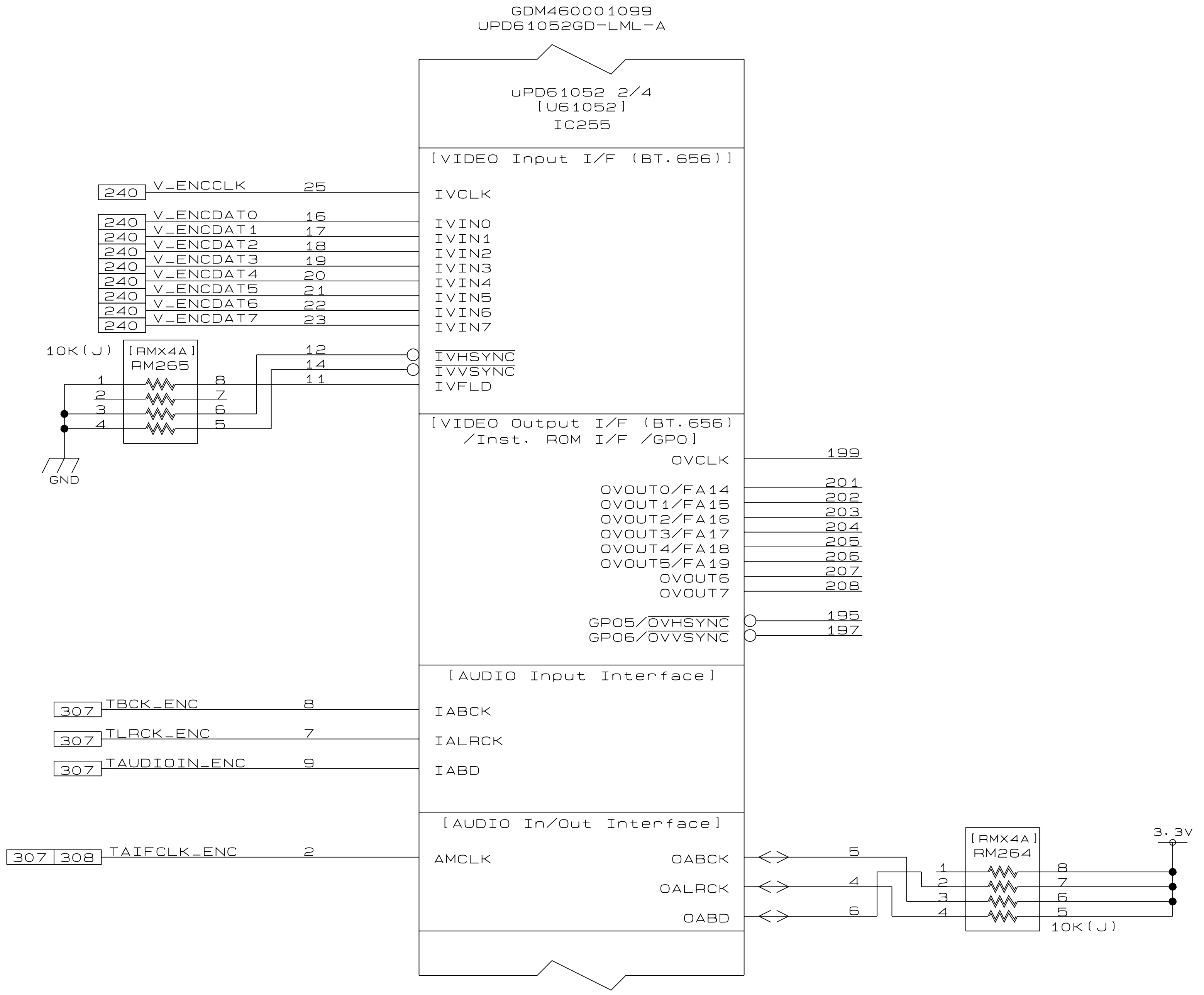
42/50HP95
SEIN FPD FULL NON LAN
VIDEO LPF

SH. NO.
242



42/50HP95
SEIN FPD FULL NON LAN
MPEG Enc. (CLK, SDRAM)

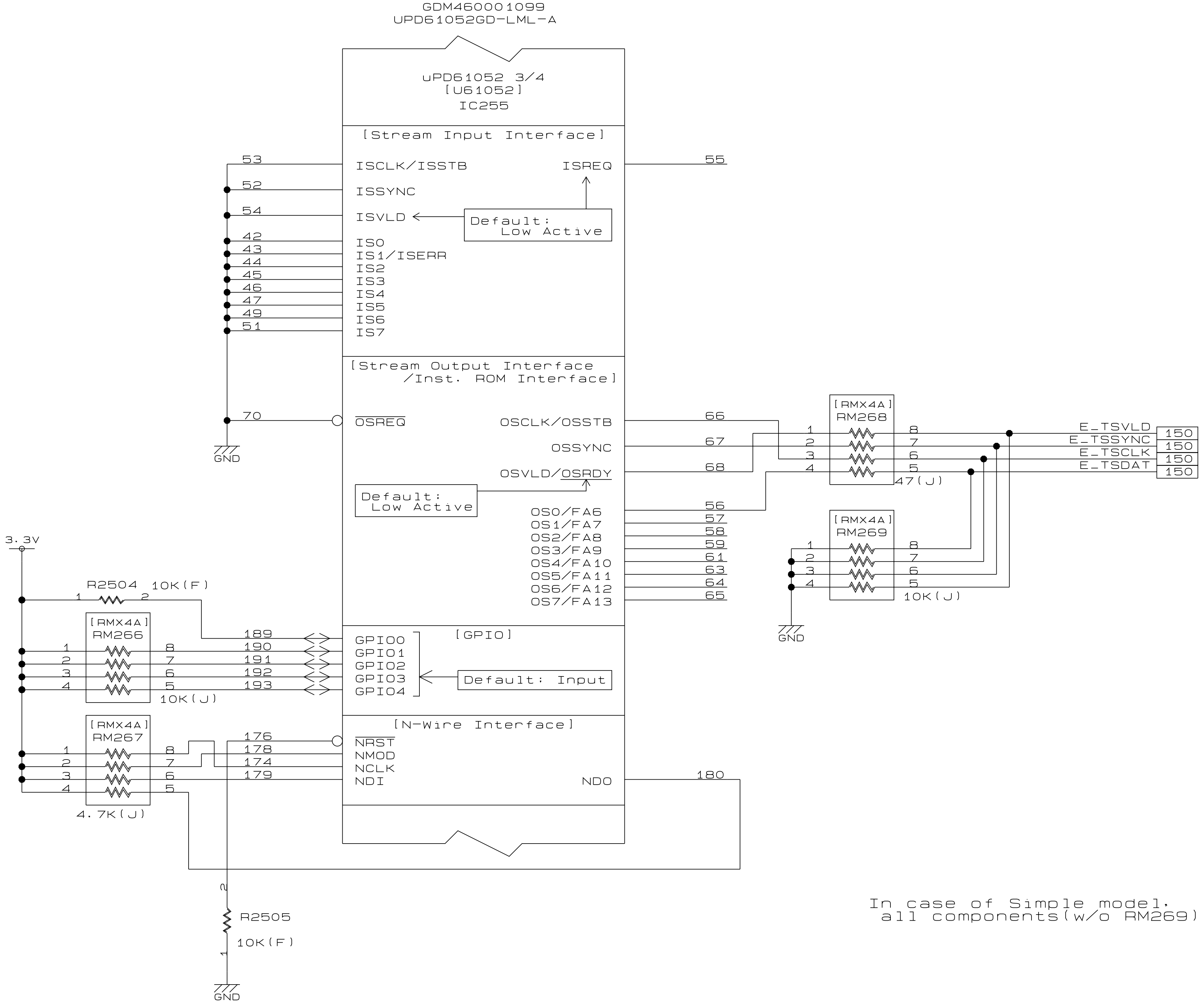
SH. NO.
250



In case of Simple model.
all components are not mounted.

42/50HP95
SEIN FPD FULL NON LAN
MPEG Enc. (AV I/F)

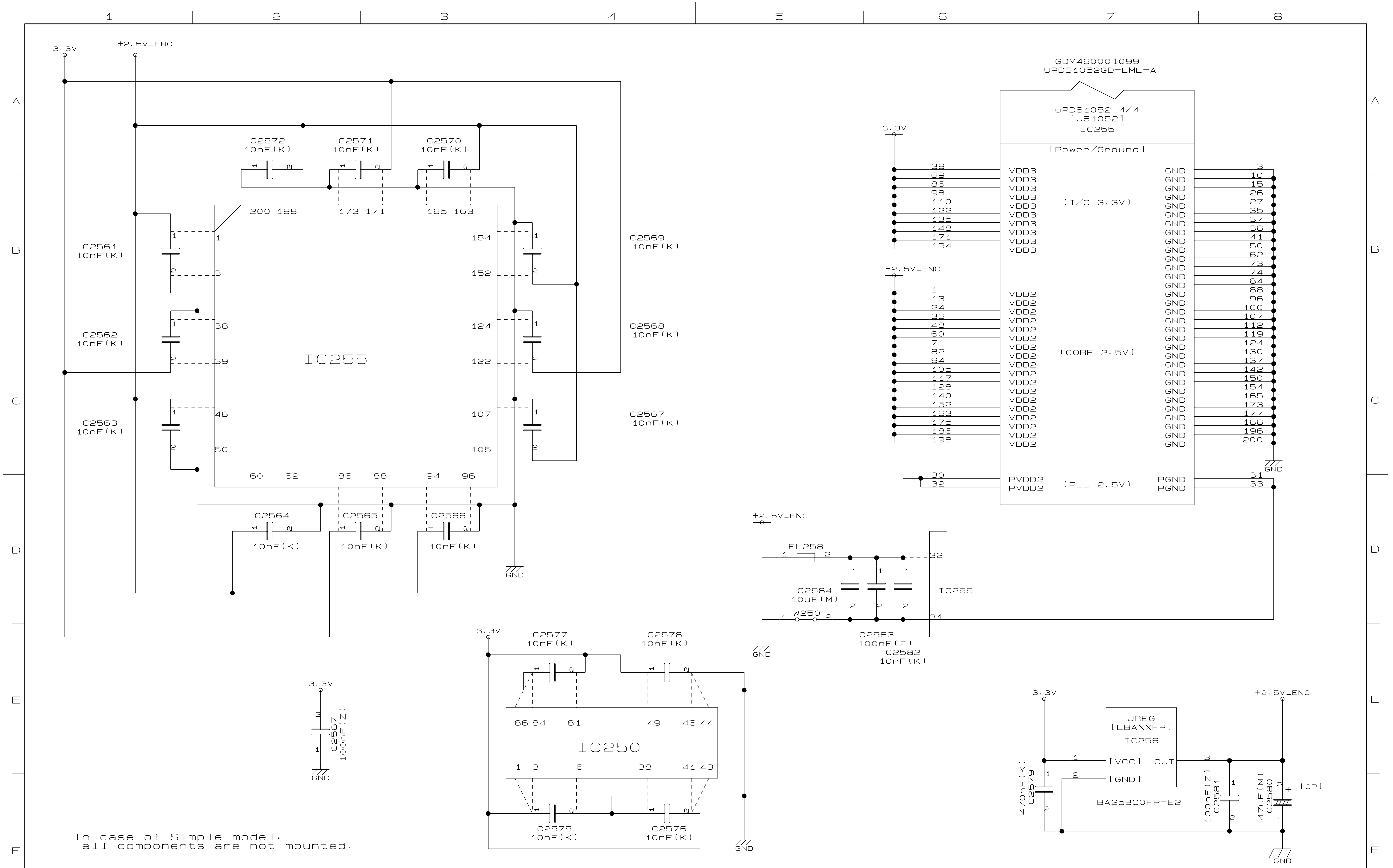
SH. NO.
251



In case of Simple model.
all components(w/o RM269) are not mounted.

42/50HP95
SEIN FPD FULL NON LAN
MPEG Enc. (STREAM I/F)

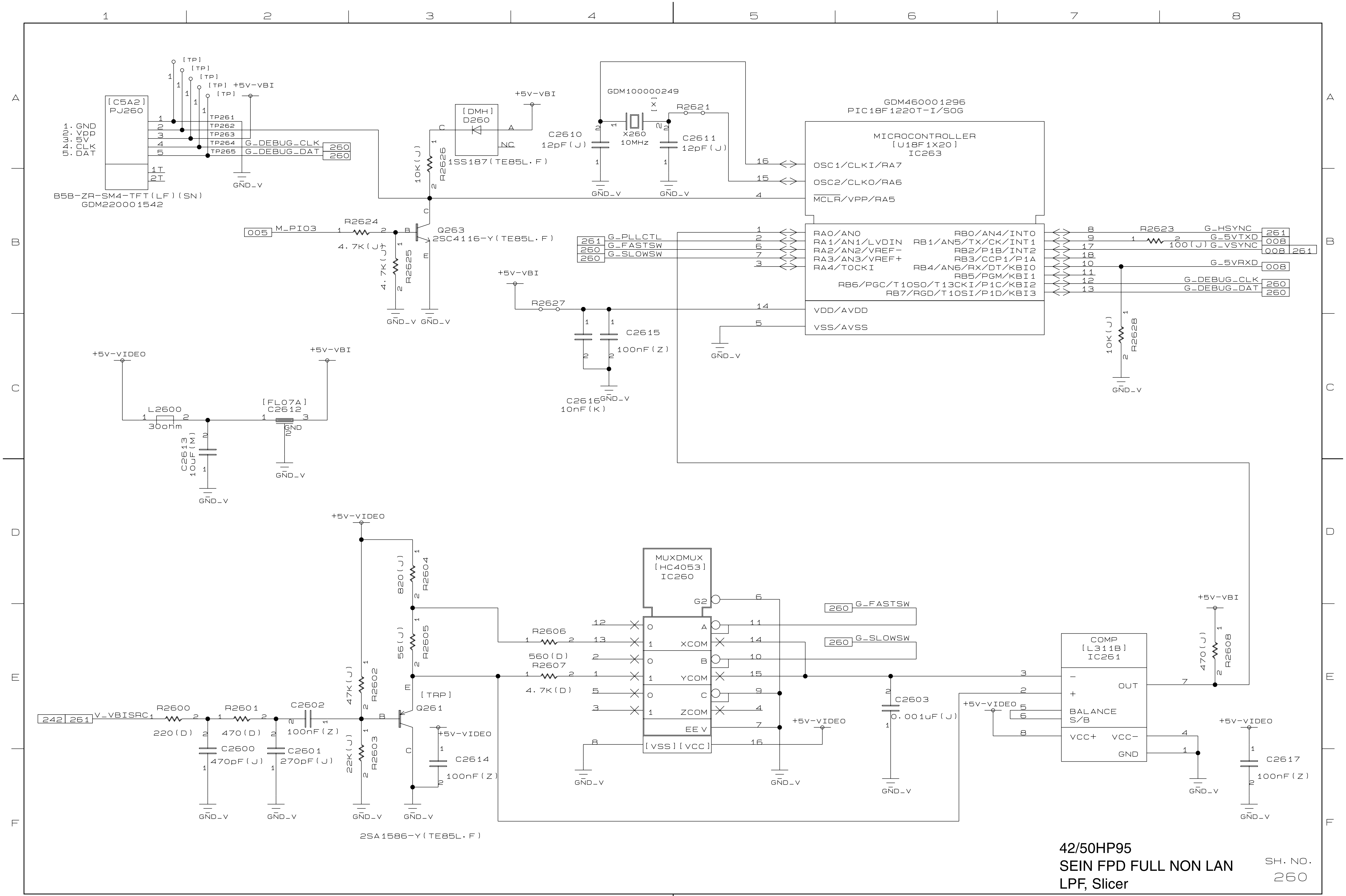
SH. NO.
252



In case of Simple model.
all components are not mounted.

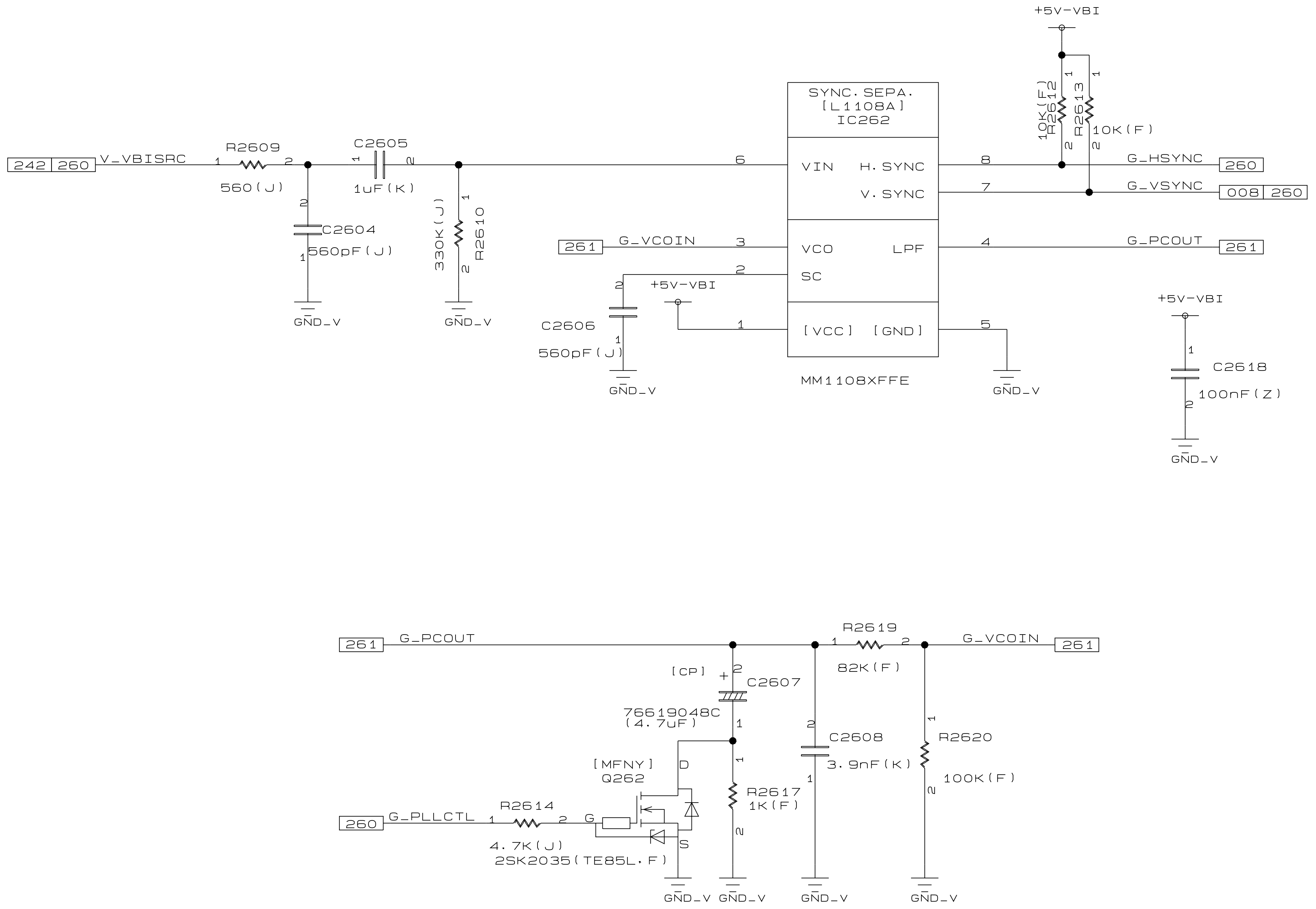
42/50HP95
SEIN FPD FULL NON LAN
MPEG Enc. (POWER)

SH. NO.
253



42/50HP95
SEIN FPD FULL NON LAN
LPF, Slicer

SH. NO.
260

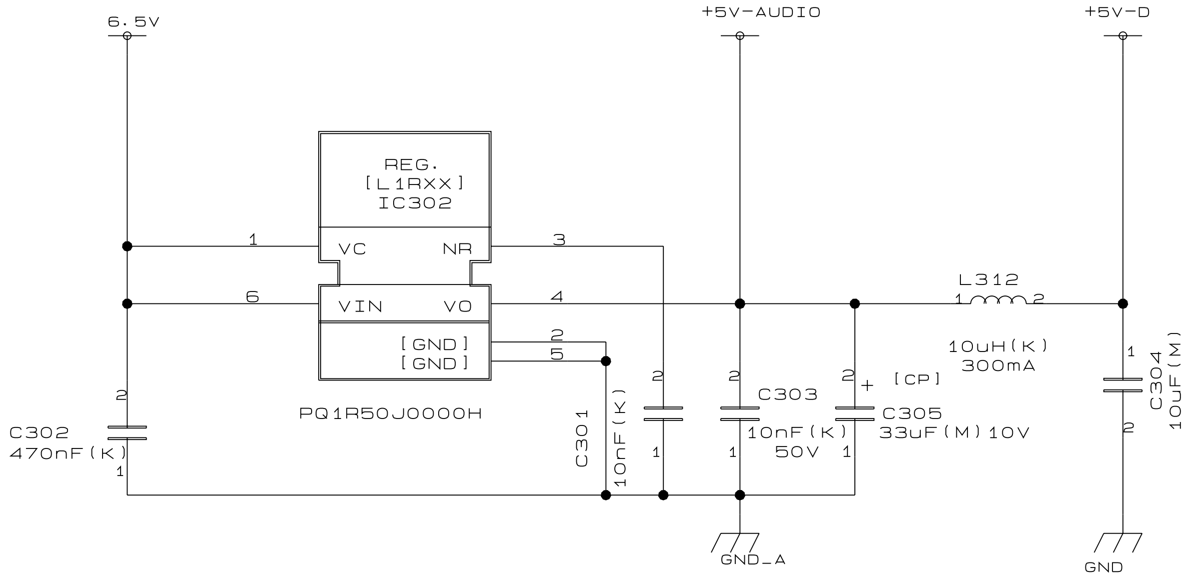


42/50HP95

SEIN FPD FULL NON LAN

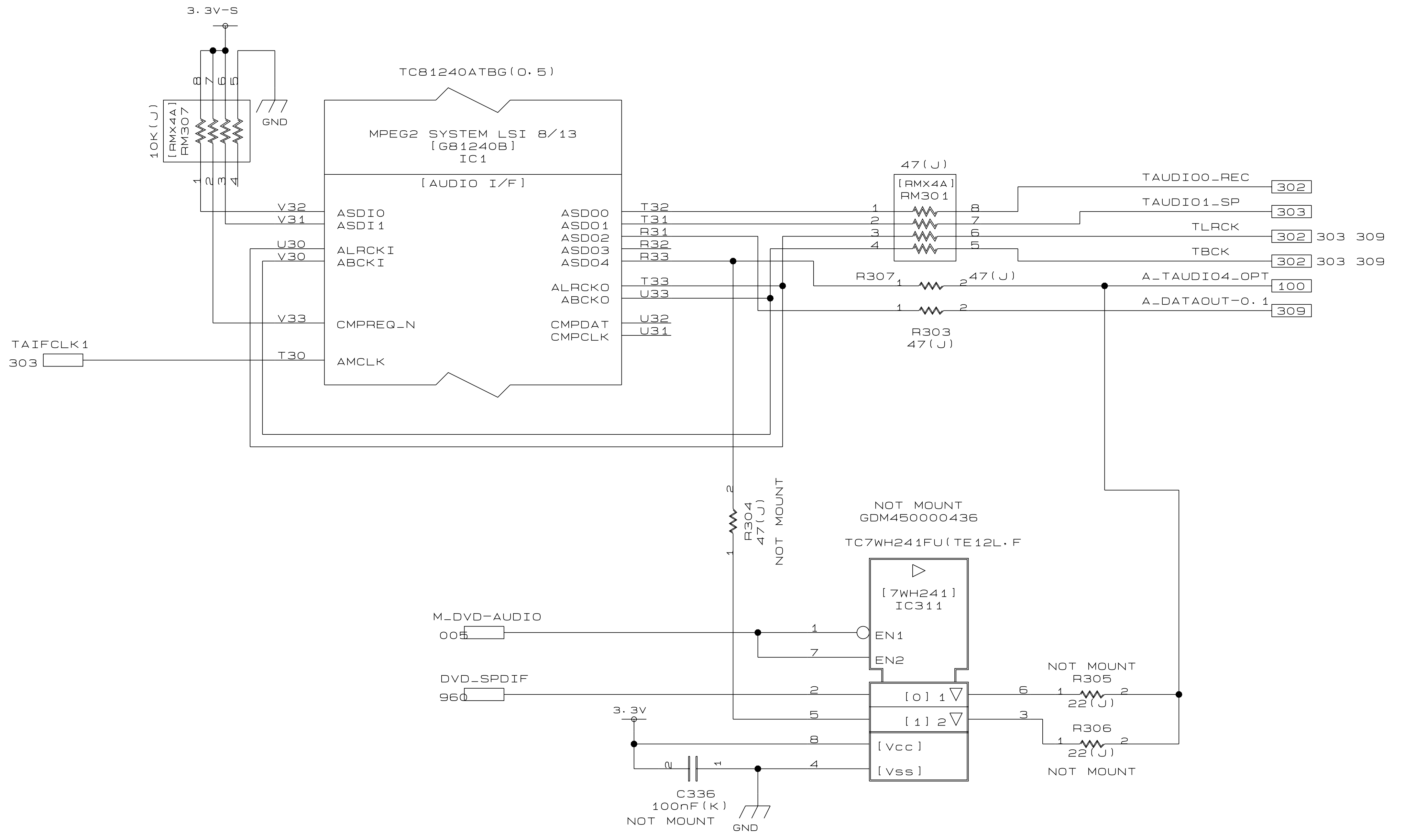
H/V Sync Sep.

SH. NO.
261



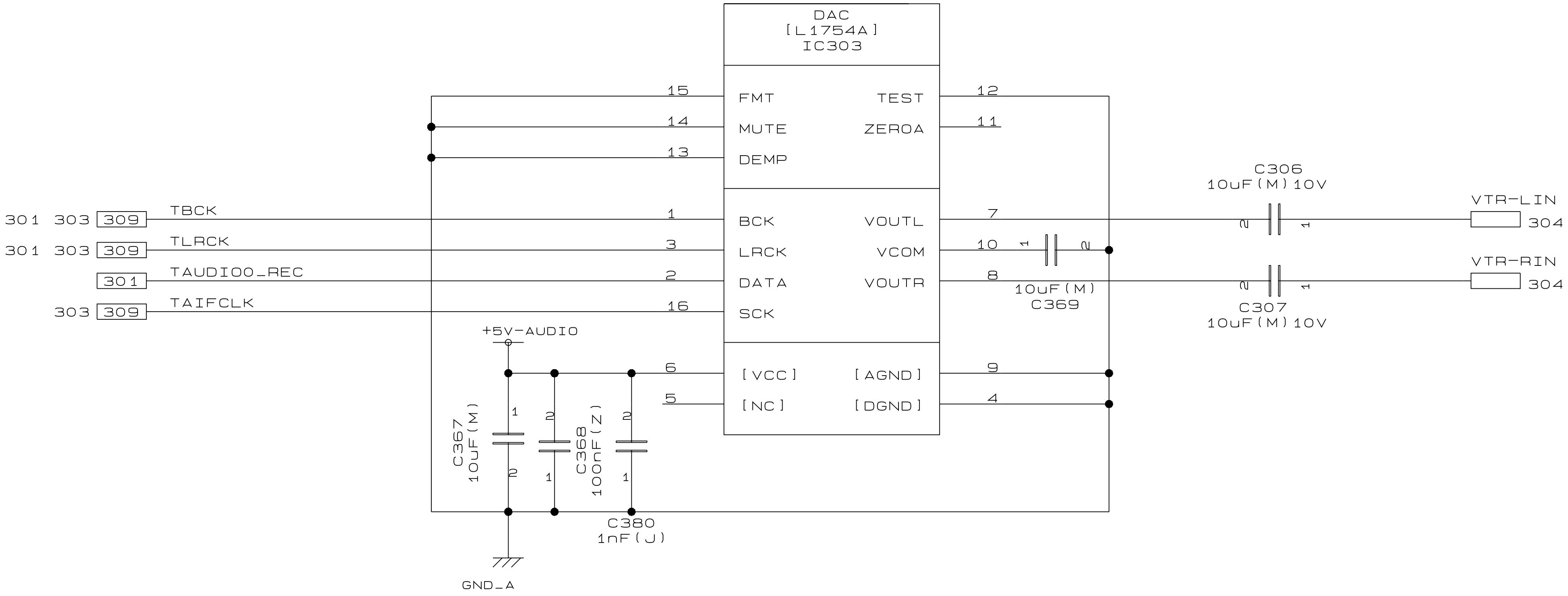
42/50HP95
SEIN FPD FULL NON LAN
AUDIO POWER

SH. NO.
300



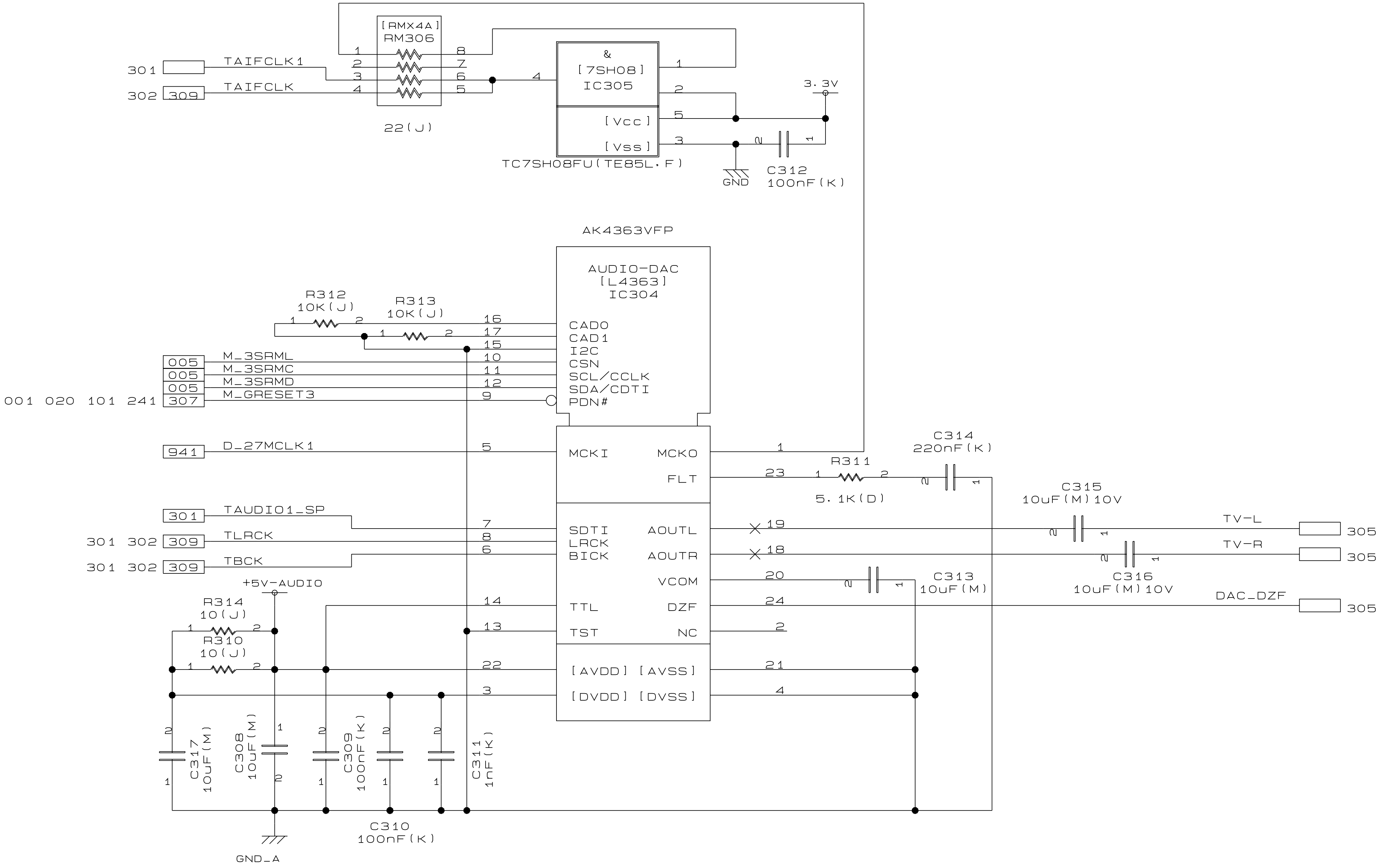
42/50HP95
SEIN FPD FULL NON LAN
SEINE AUDIO I/F

SH. NO.
301



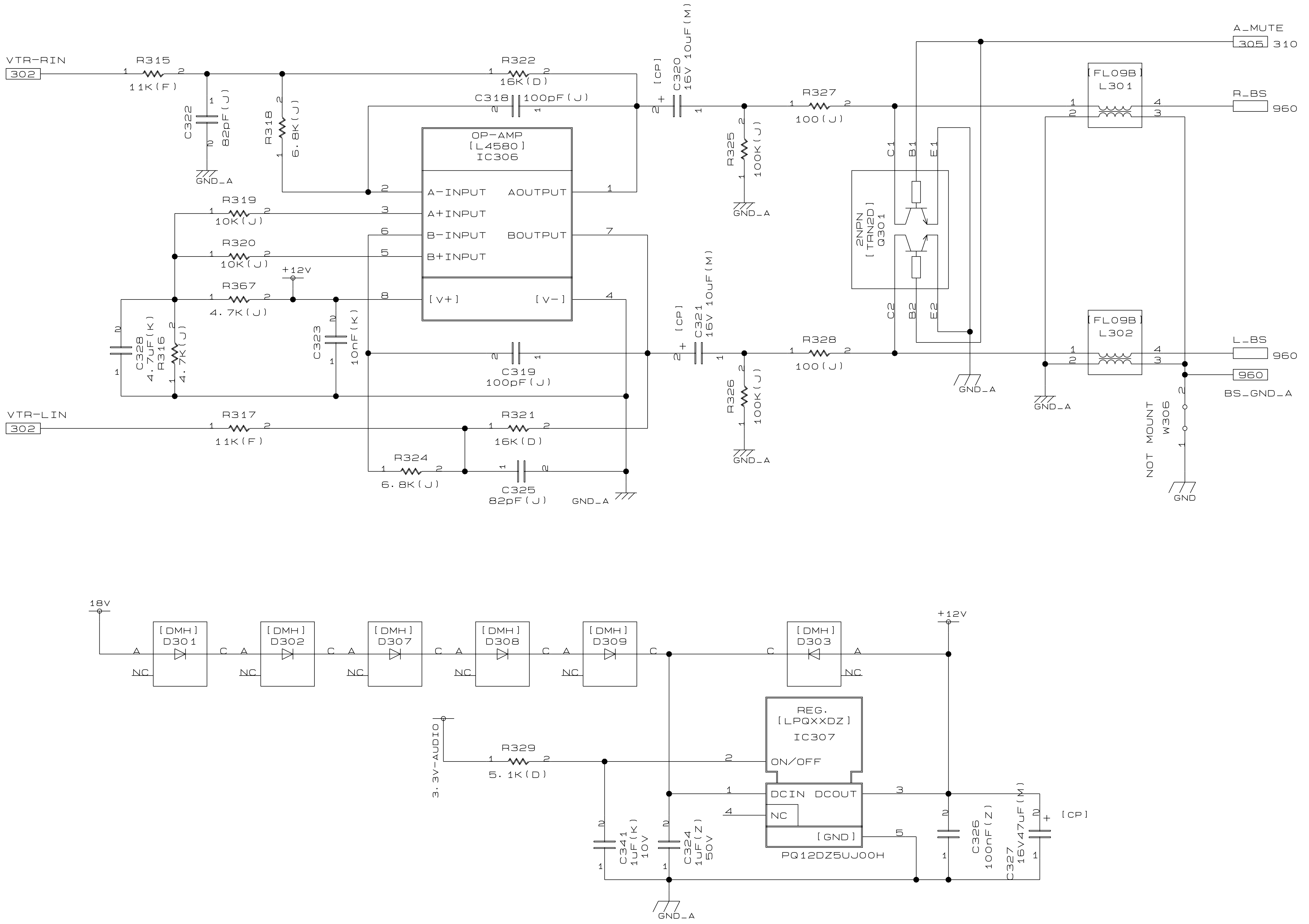
42/50HP95
SEIN FPD FULL NON LAN
AUDIO DAC

SH. NO.
302



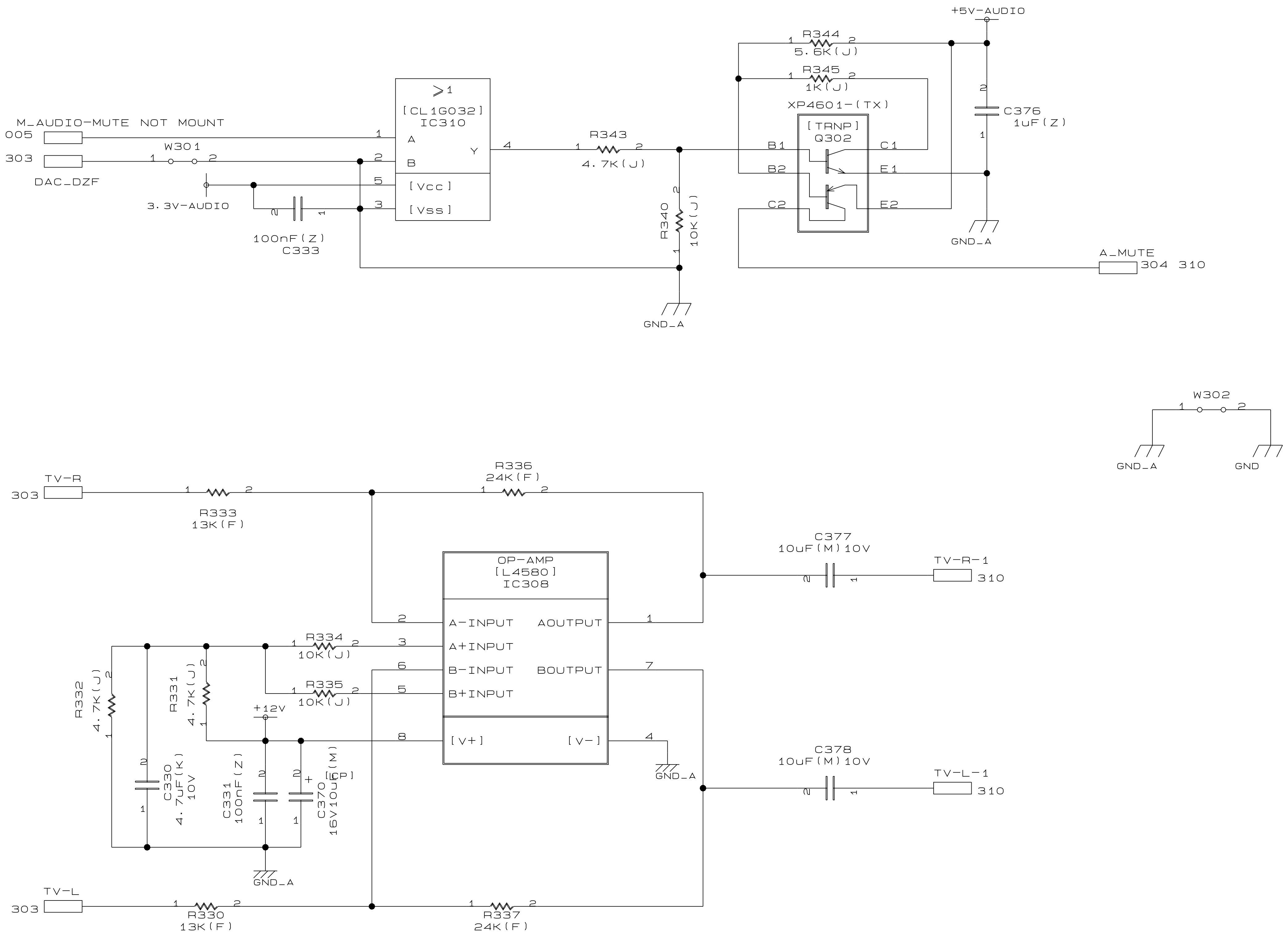
42/50HP95
SEIN FPD FULL NON LAN
AUDIO PLL/DAC

SH. NO.
303



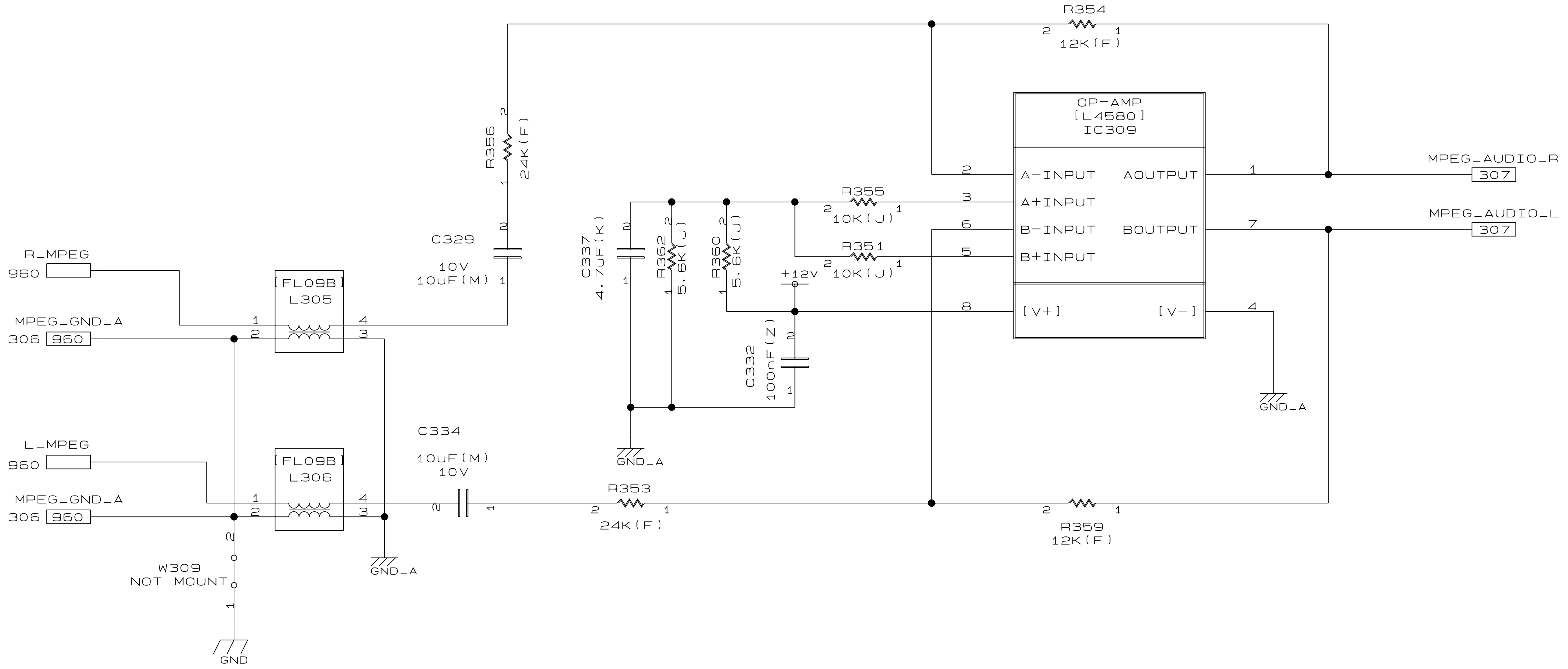
42/50HP95
SEIN FPD FULL NON LAN
AUDIO VTR OUT

SH. NO.
304



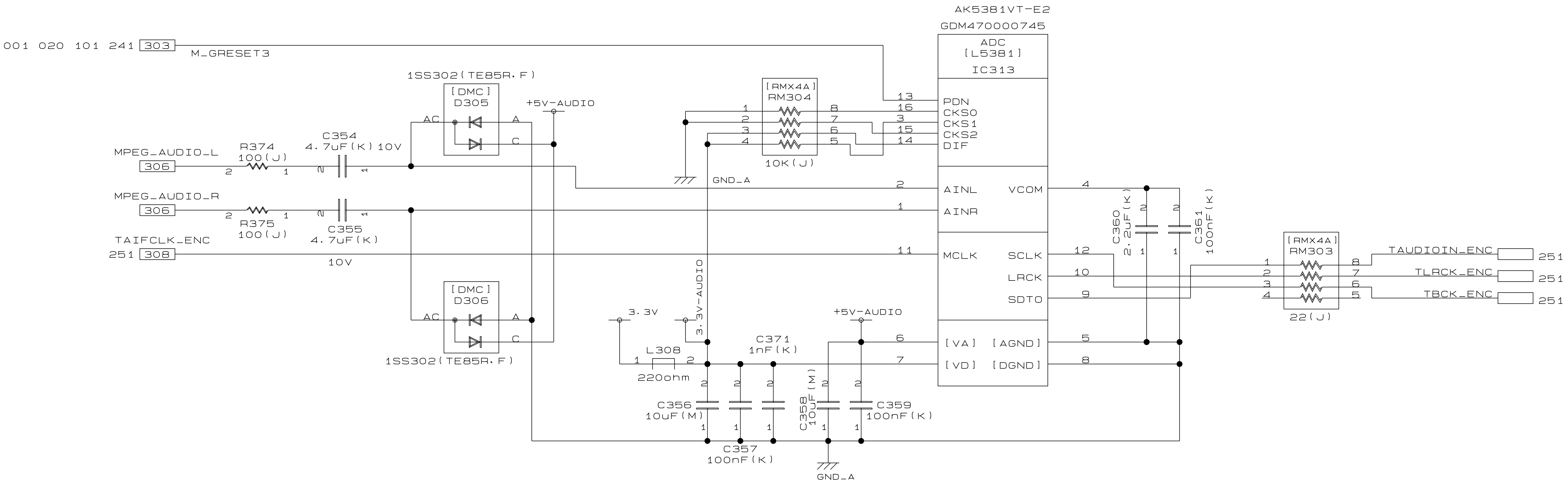
42/50HP95
SEIN FPD FULL NON LAN
AUDIO SP OUT

SH. NO.
305



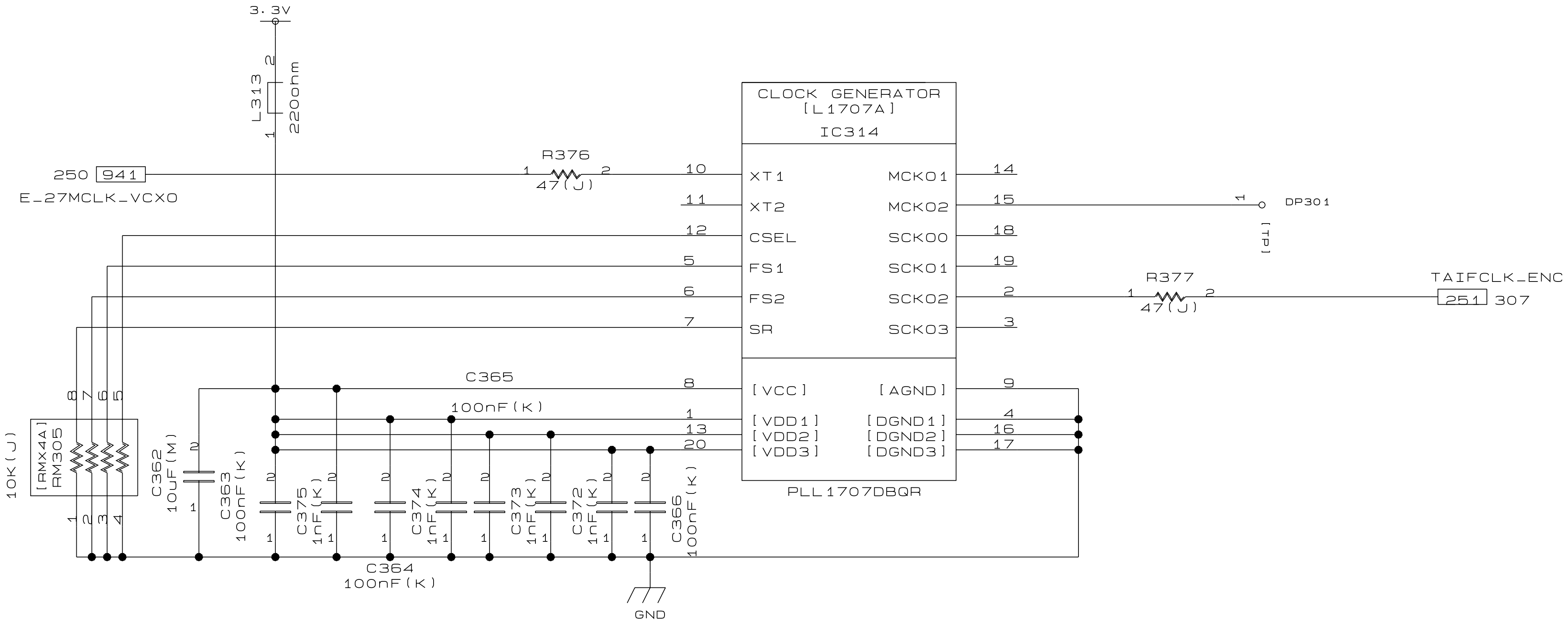
42/50HP95
SEIN FPD FULL NON LAN
MPEG2 AUDIO TV IN

SH. NO.
306



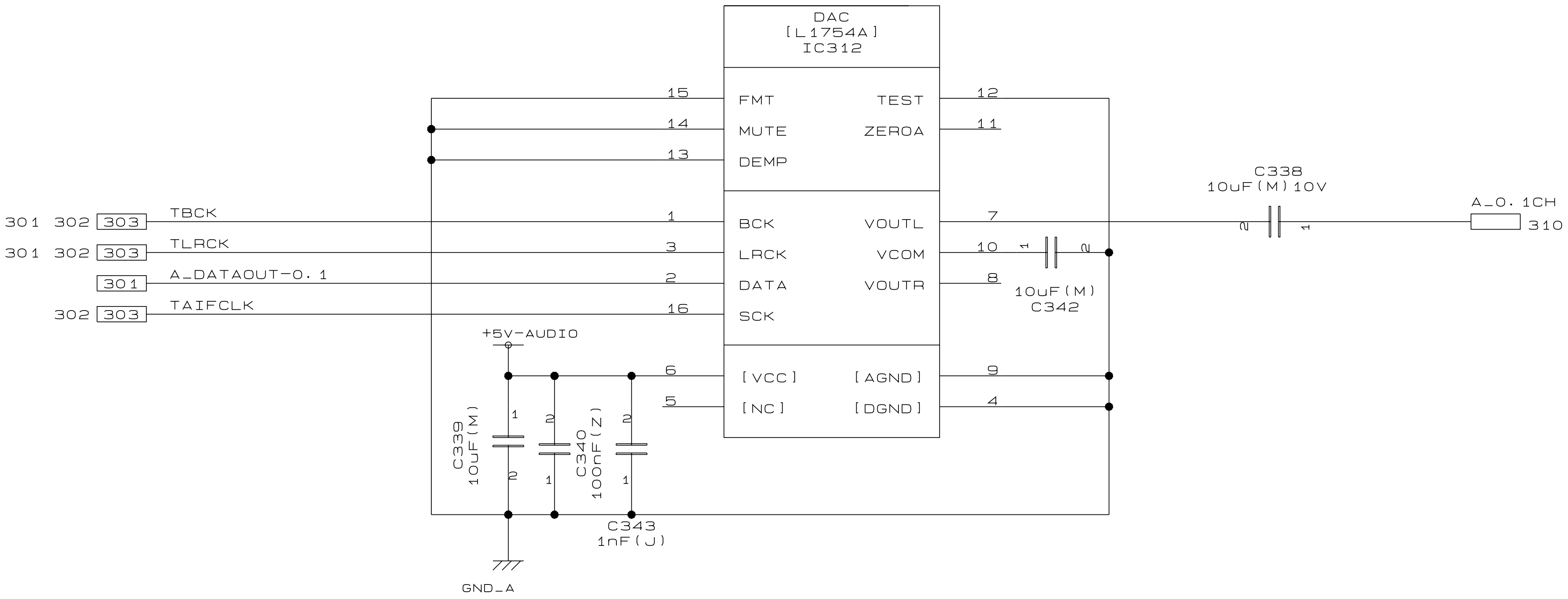
42/50HP95
SEIN FPD FULL NON LAN
MPEG2 AUDIO ADC

SH. NO.
307



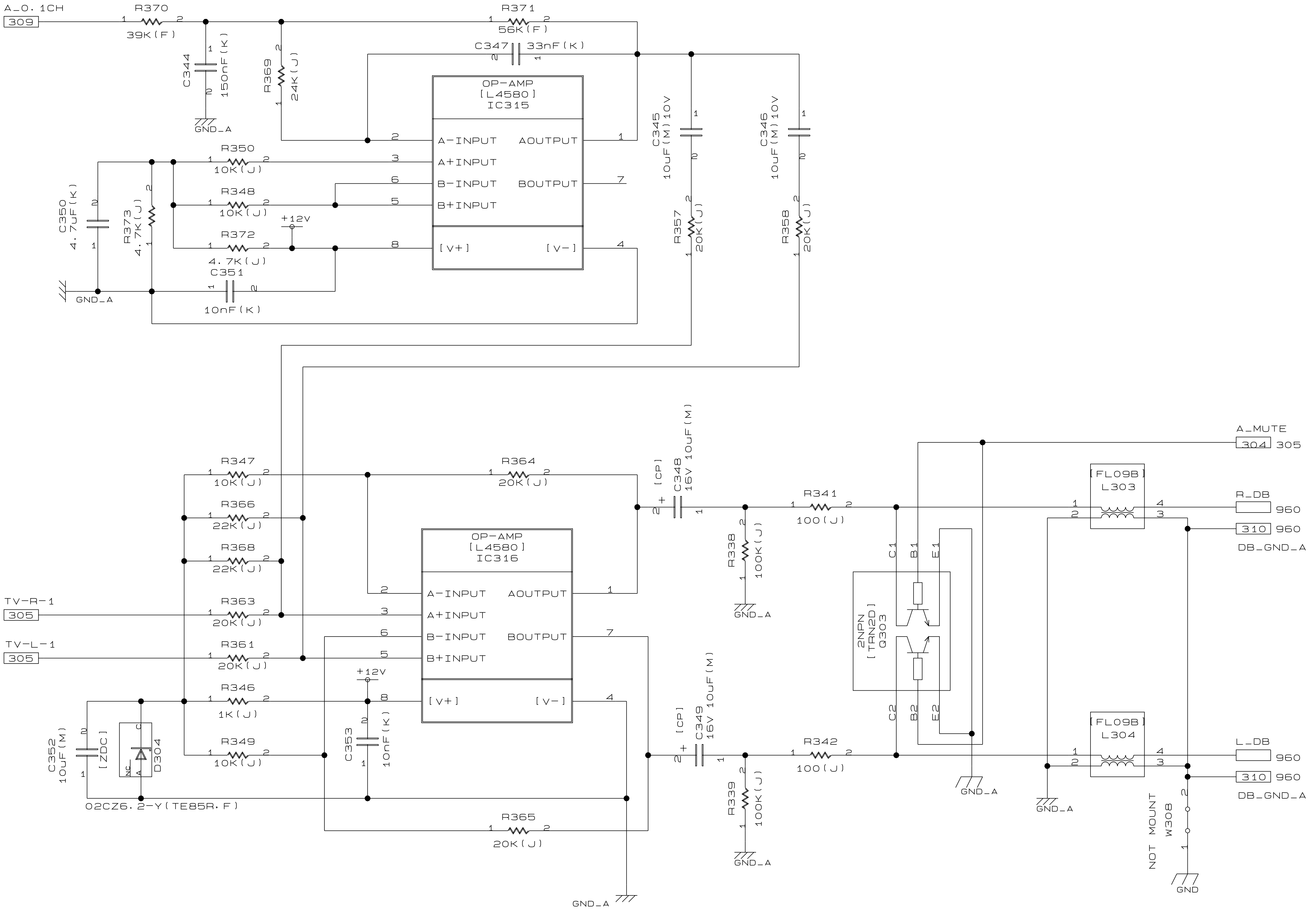
42/50HP95
SEIN FPD FULL NON LAN
MPEG2 AUDIO PLL

SH. NO.
308



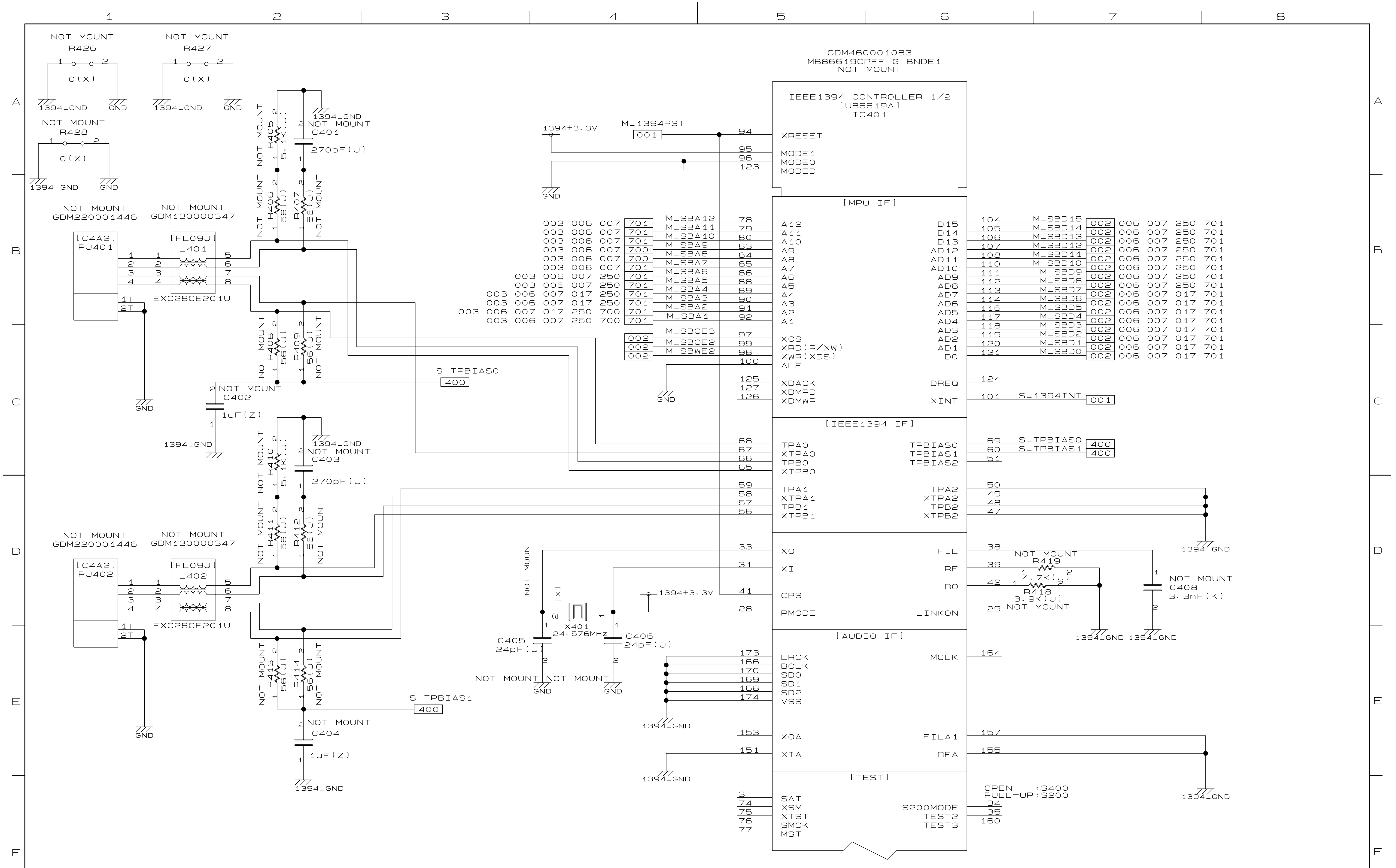
42/50HP95
SEIN FPD FULL NON LAN
AUDIO DAC 0.1CH

SH. NO.
309



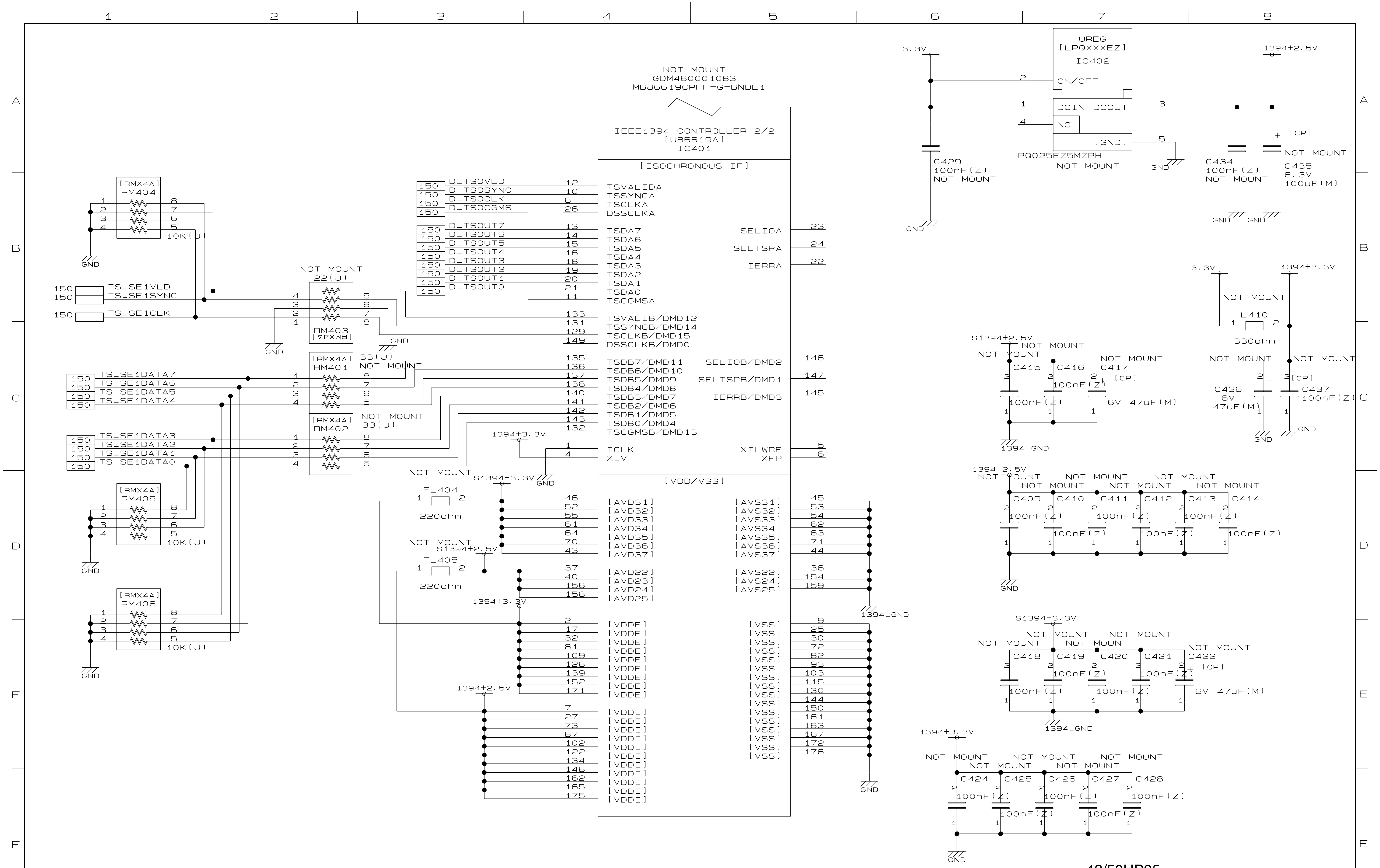
42/50HP95
SEIN FPD FULL NON LAN
AUDIO VTR OUT

SH. NO.
310



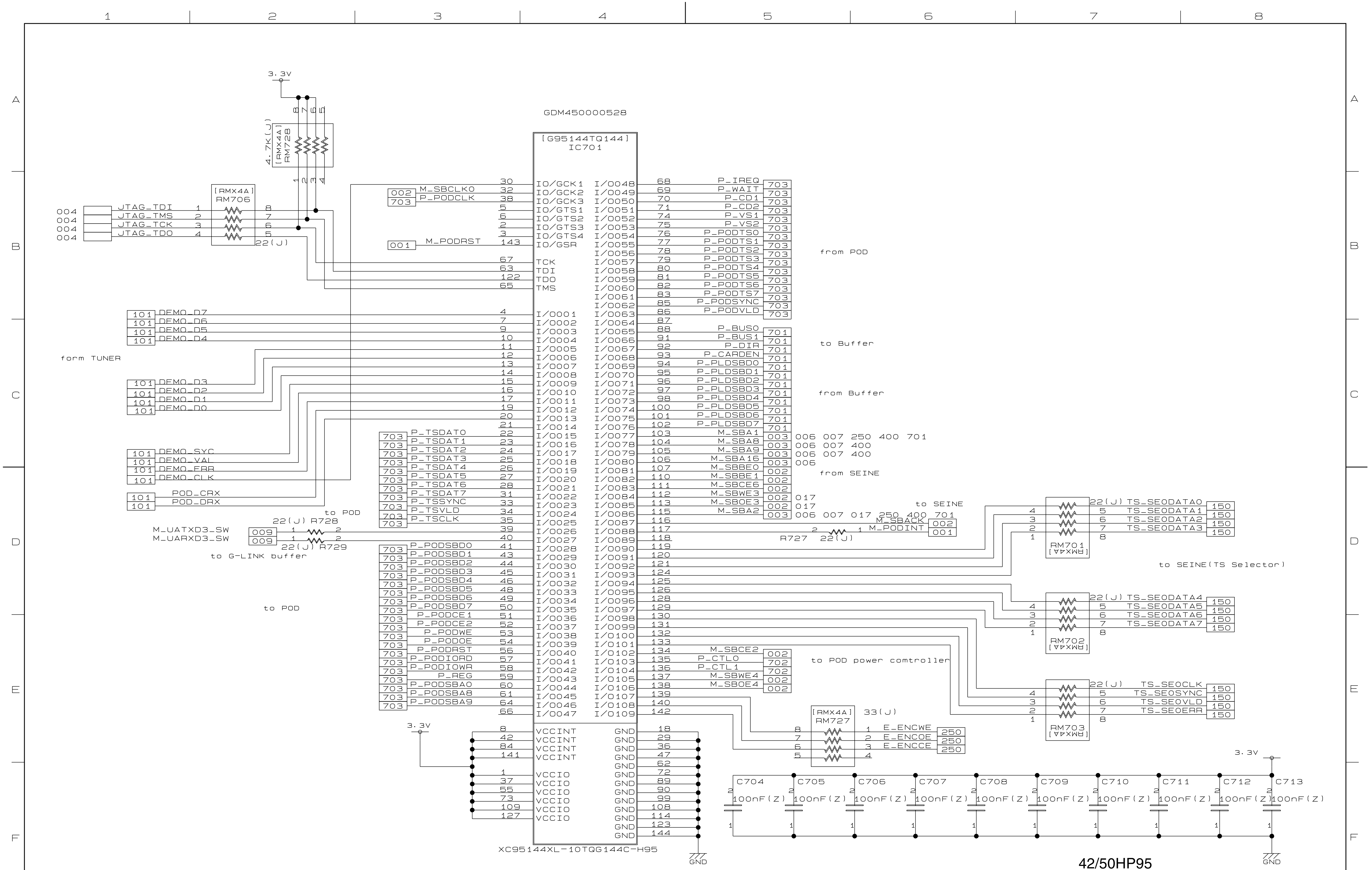
42/50HP95
SEIN FPD FULL NON LAN
MB86619

SH. NO.
400



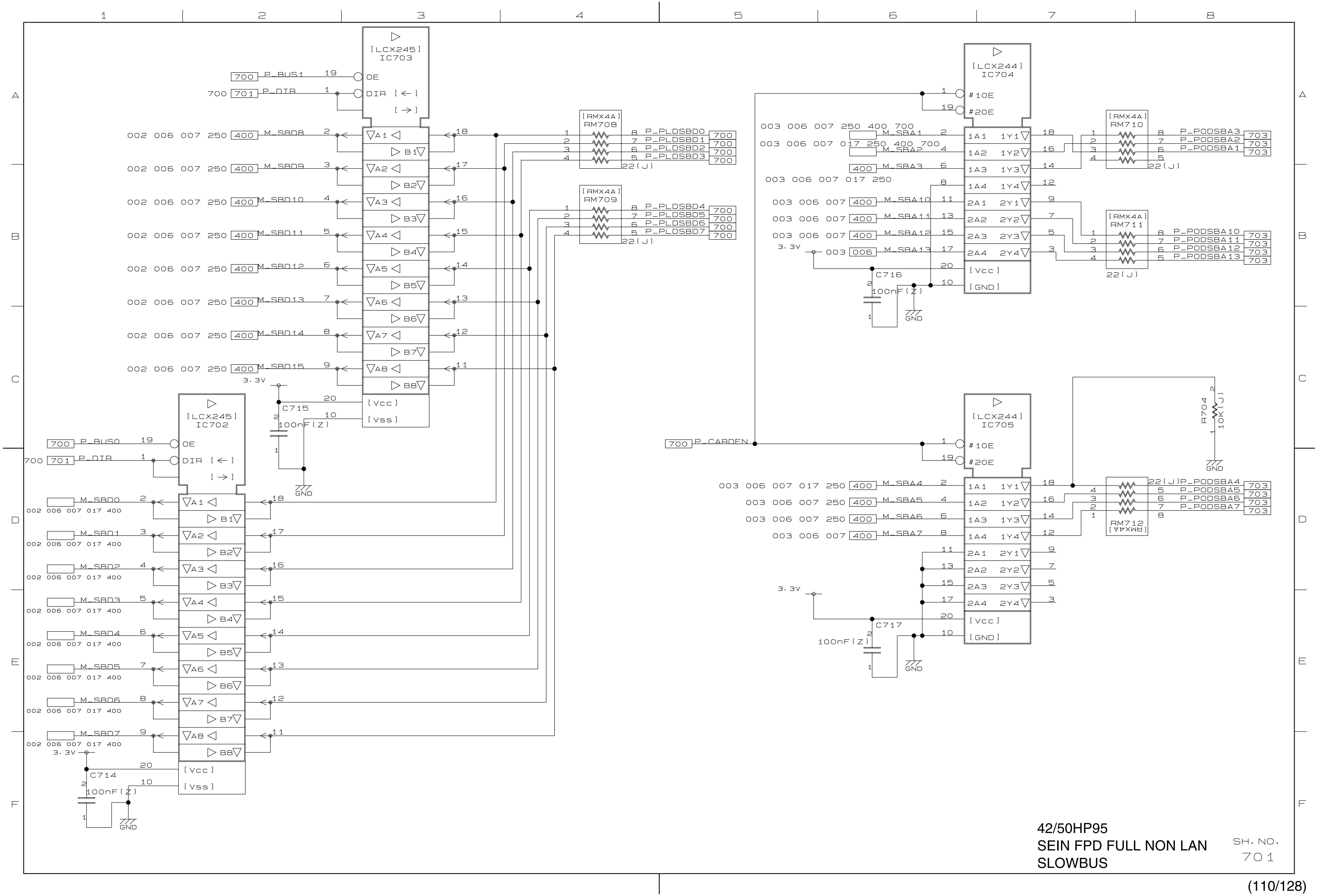
42/50HP95
SEIN FPD FULL NON LAN
MB86619 (POWER)

SH. NO.
401



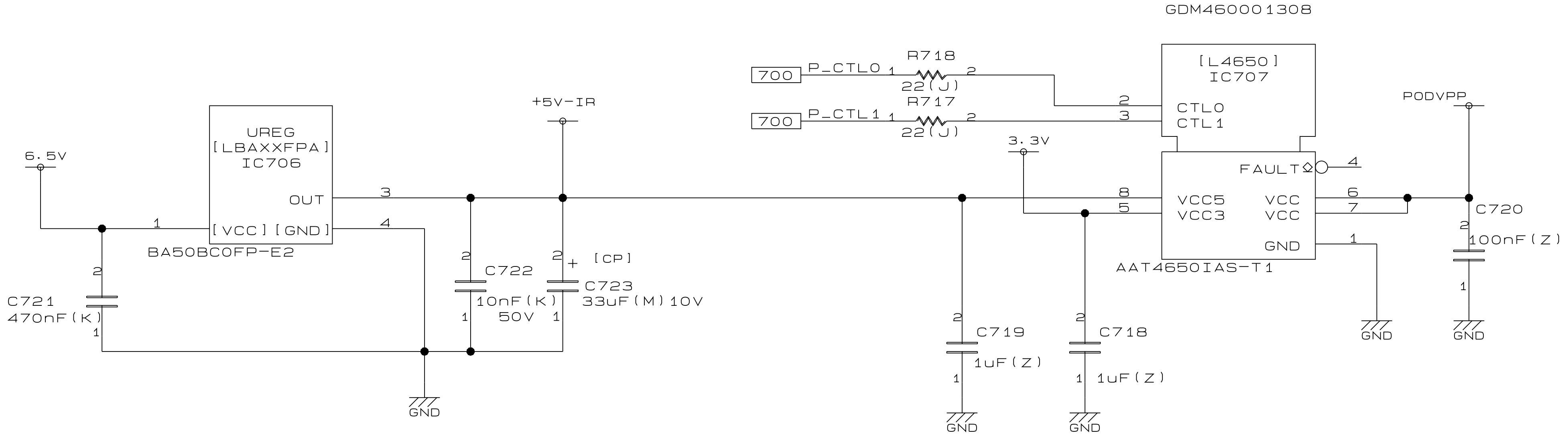
42/50HP95
SEIN FPD FULL NON LAN
CPLD XILINX

SH. NO.
700



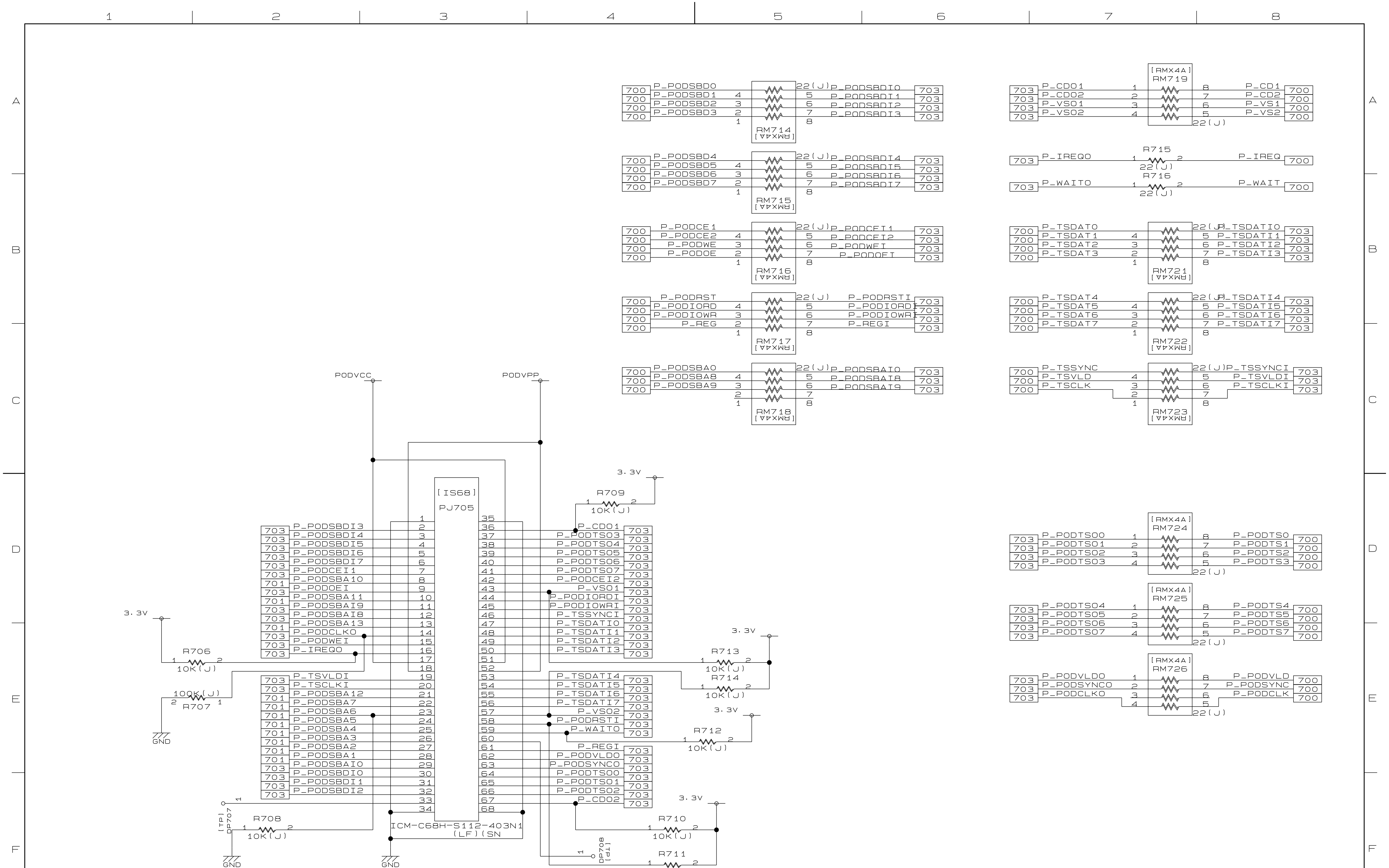
42/50HP95
SEIN FPD FULL NON LAN
SLOWBUS

SH. NO.
701



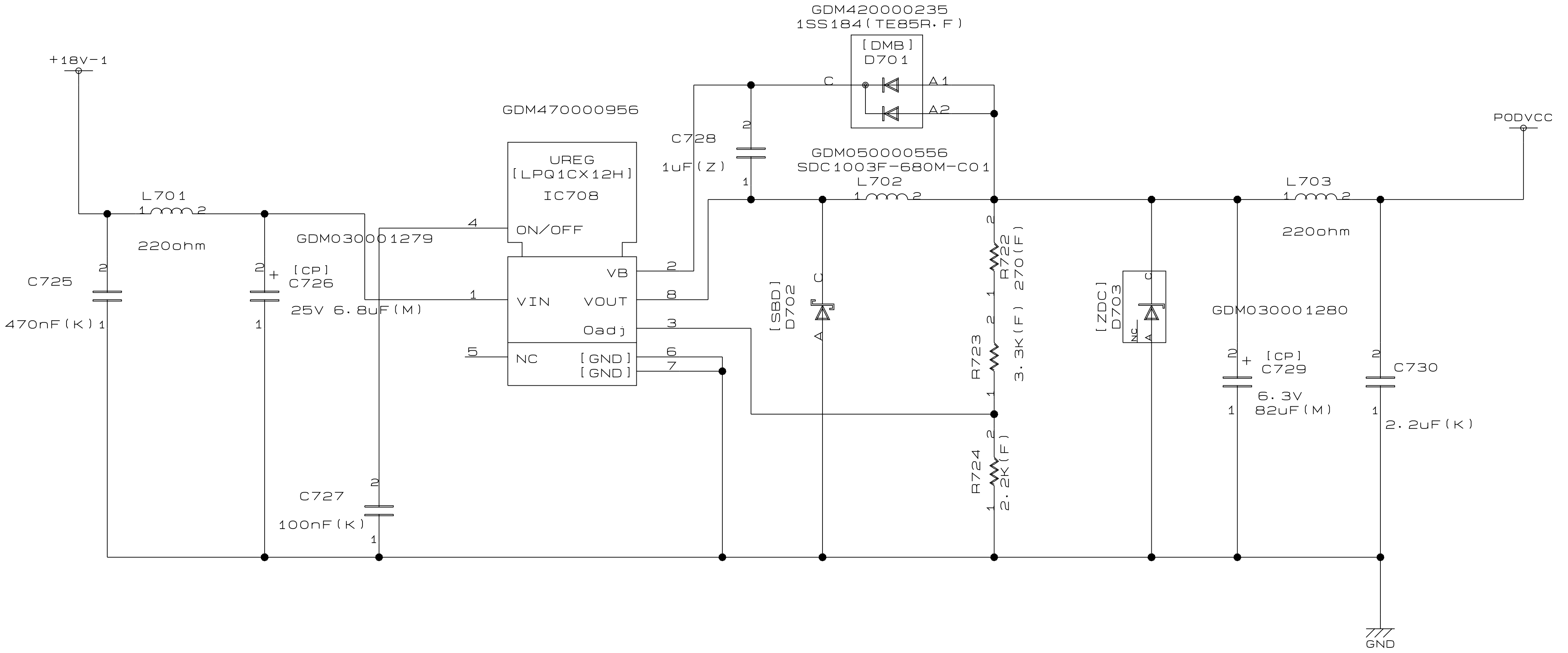
42/50HP95
SEIN FPD FULL NON LAN
PODVPP

SH. NO.
702



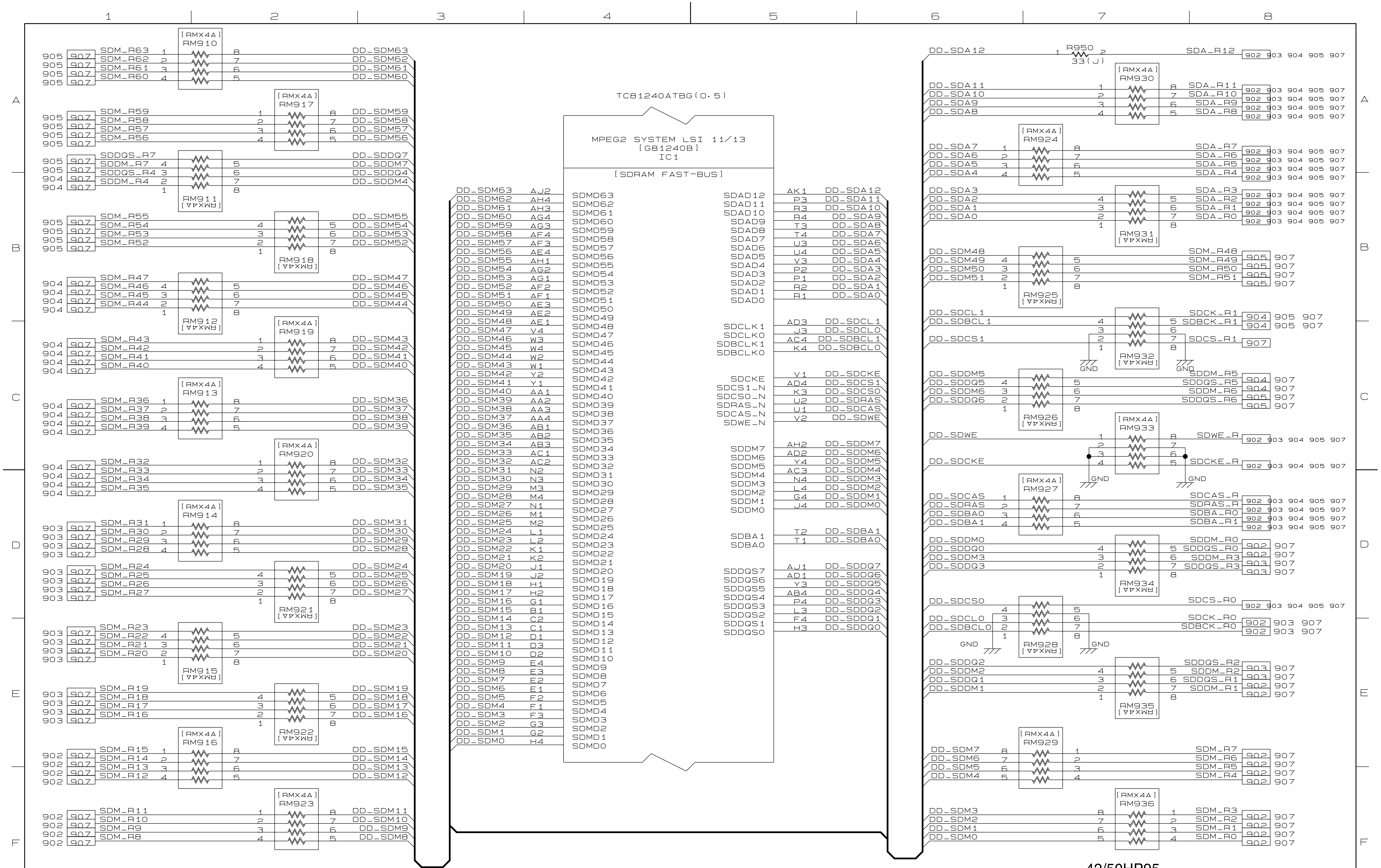
42/50HP95
SEIN FPD FULL NON LAN
POD I/F

SH. NO.
703



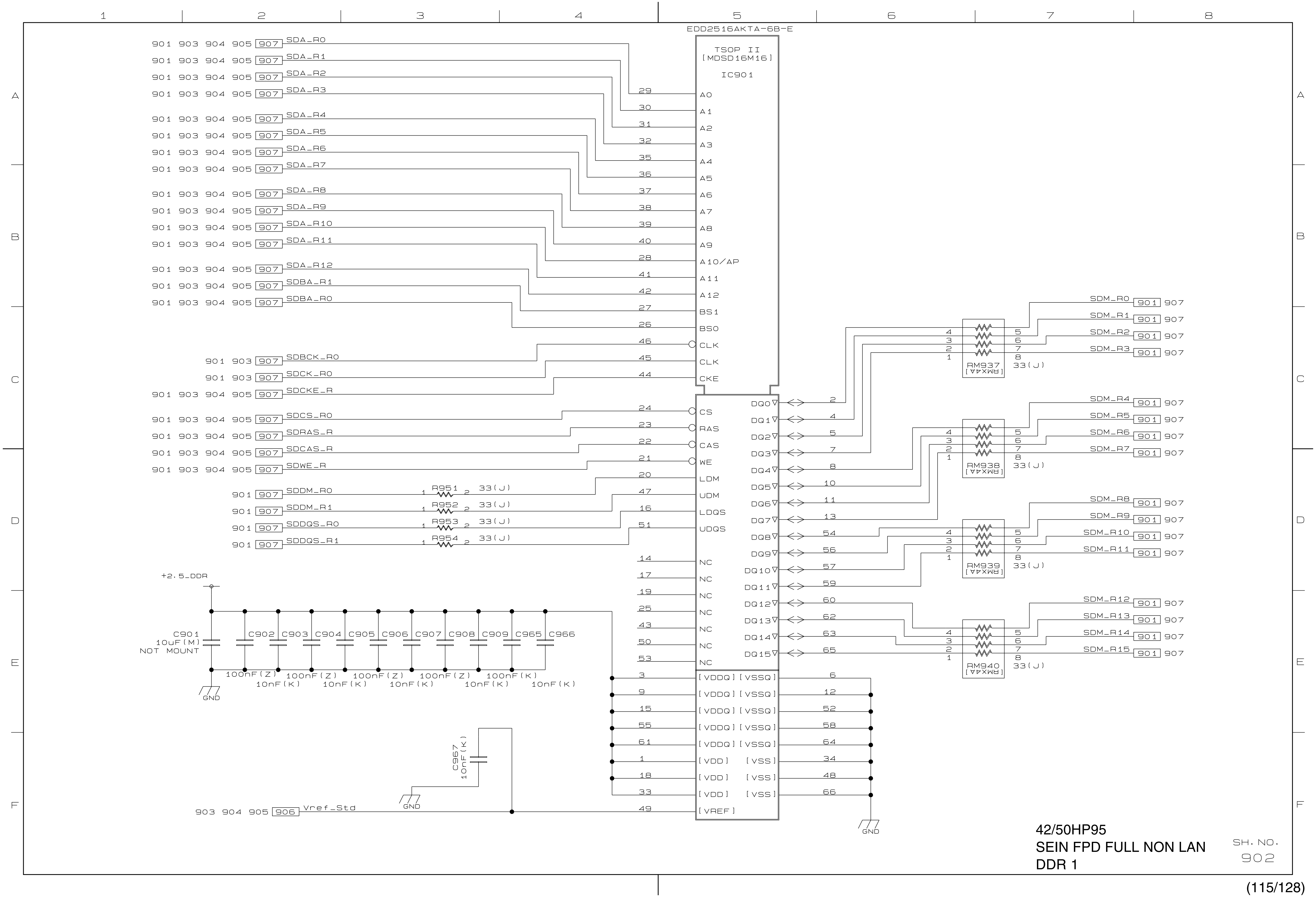
42/50HP95
SEIN FPD FULL NON LAN
PODVCC

SH. NO.
704



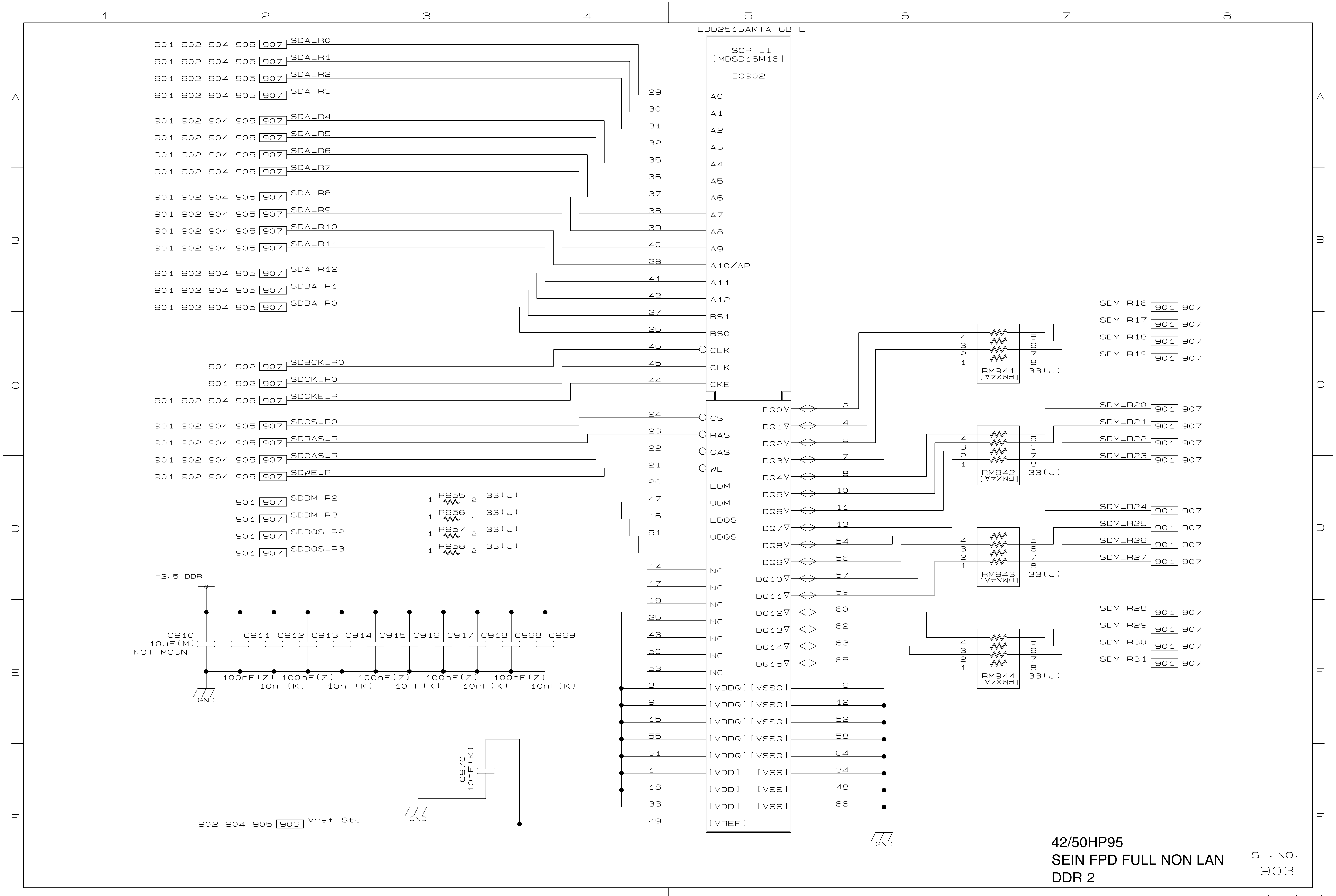
42/50HP95
SEIN FPD FULL NON LAN
DDR SDRAM I/F

SH. NO.
901


EDD2516AKTA-6B-E
TSOP II
[MDSD16M16]
IC901
901 903 904 905 907 SDA_R0 29 A0
901 903 904 905 907 SDA_R1 30 A1
901 903 904 905 907 SDA_R2 31 A2
901 903 904 905 907 SDA_R3 32 A3
901 903 904 905 907 SDA_R4 35 A4
901 903 904 905 907 SDA_R5 36 A5
901 903 904 905 907 SDA_R6 37 A6
901 903 904 905 907 SDA_R7 38 A7
901 903 904 905 907 SDA_R8 39 A8
901 903 904 905 907 SDA_R9 40 A9
901 903 904 905 907 SDA_R10 28 A10/AP
901 903 904 905 907 SDA_R11 41 A11
901 903 904 905 907 SDA_R12 42 A12
901 903 904 905 907 SDBA_R1 27 BS1
901 903 904 905 907 SDBA_R0 26 BS0
901 903 907 SDBCK_R0 46 CLK
901 903 907 SDCK_R0 45 CLK
901 903 904 905 907 SDCKE_R 44 CKE
901 903 904 905 907 SDCS_R0 24 CS
901 903 904 905 907 SDRAS_R 23 RAS
901 903 904 905 907 SDCAS_R 22 CAS
901 903 904 905 907 SDWE_R 21 WE
901 907 SDDM_R0 R951 33(J) 20 LDM
901 907 SDDM_R1 R952 33(J) 47 UDM
901 907 SDDQS_R0 R953 33(J) 16 LDQS
901 907 SDDQS_R1 R954 33(J) 51 UDQS
14 NC
17 NC
19 NC
25 NC
43 NC
50 NC
53 NC
DQ0 2
DQ1 4
DQ2 5
DQ3 7
DQ4 8
DQ5 10
DQ6 11
DQ7 13
DQ8 54
DQ9 56
DQ10 57
DQ11 59
DQ12 60
DQ13 62
DQ14 63
DQ15 65
RM937 [RMX4A] 33(J)
RM938 [RMX4A] 33(J)
RM939 [RMX4A] 33(J)
RM940 [RMX4A] 33(J)
SDM_R0 901 907
SDM_R1 901 907
SDM_R2 901 907
SDM_R3 901 907
SDM_R4 901 907
SDM_R5 901 907
SDM_R6 901 907
SDM_R7 901 907
SDM_R8 901 907
SDM_R9 901 907
SDM_R10 901 907
SDM_R11 901 907
SDM_R12 901 907
SDM_R13 901 907
SDM_R14 901 907
SDM_R15 901 907
3 [VDDQ] [VSSQ] 6
9 [VDDQ] [VSSQ] 12
15 [VDDQ] [VSSQ] 52
55 [VDDQ] [VSSQ] 58
61 [VDDQ] [VSSQ] 64
1 [VDD] [VSS] 34
18 [VDD] [VSS] 48
33 [VDD] [VSS] 66
49 [VREF]
+2.5_DDR
C901 10uF(M) NOT MOUNT
C902 C903 C904 C905 C906 C907 C908 C909 C965 C966
100nF(Z) 100nF(Z) 100nF(Z) 100nF(Z) 100nF(K)
10nF(K) 10nF(K) 10nF(K) 10nF(K) 10nF(K)
C967 10nF(K)
GND
903 904 905 906 Vref_Std
1 2 3 4 5 6 7 8
A B C D E F

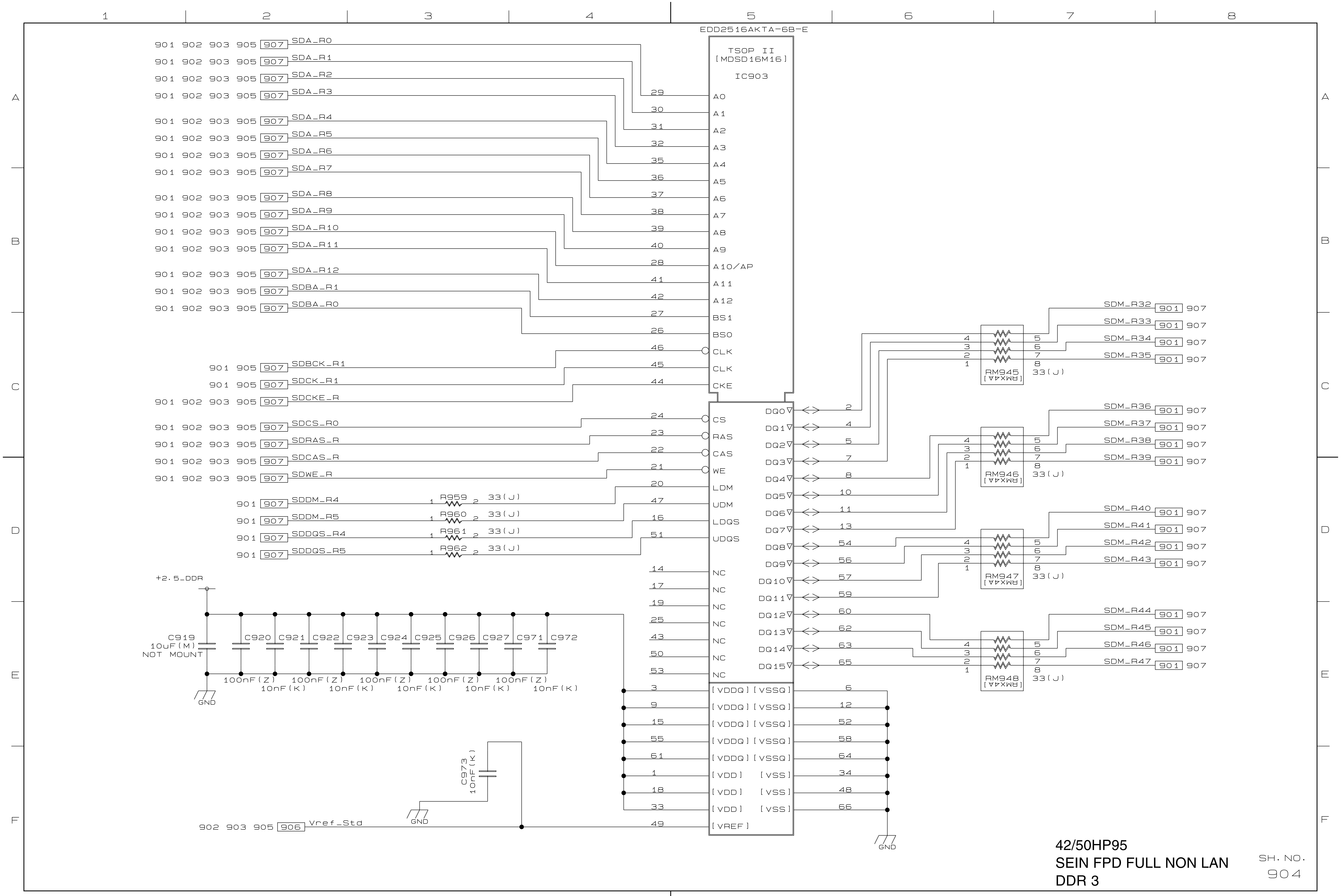
42/50HP95
SEIN FPD FULL NON LAN
DDR 1

SH. NO.
902



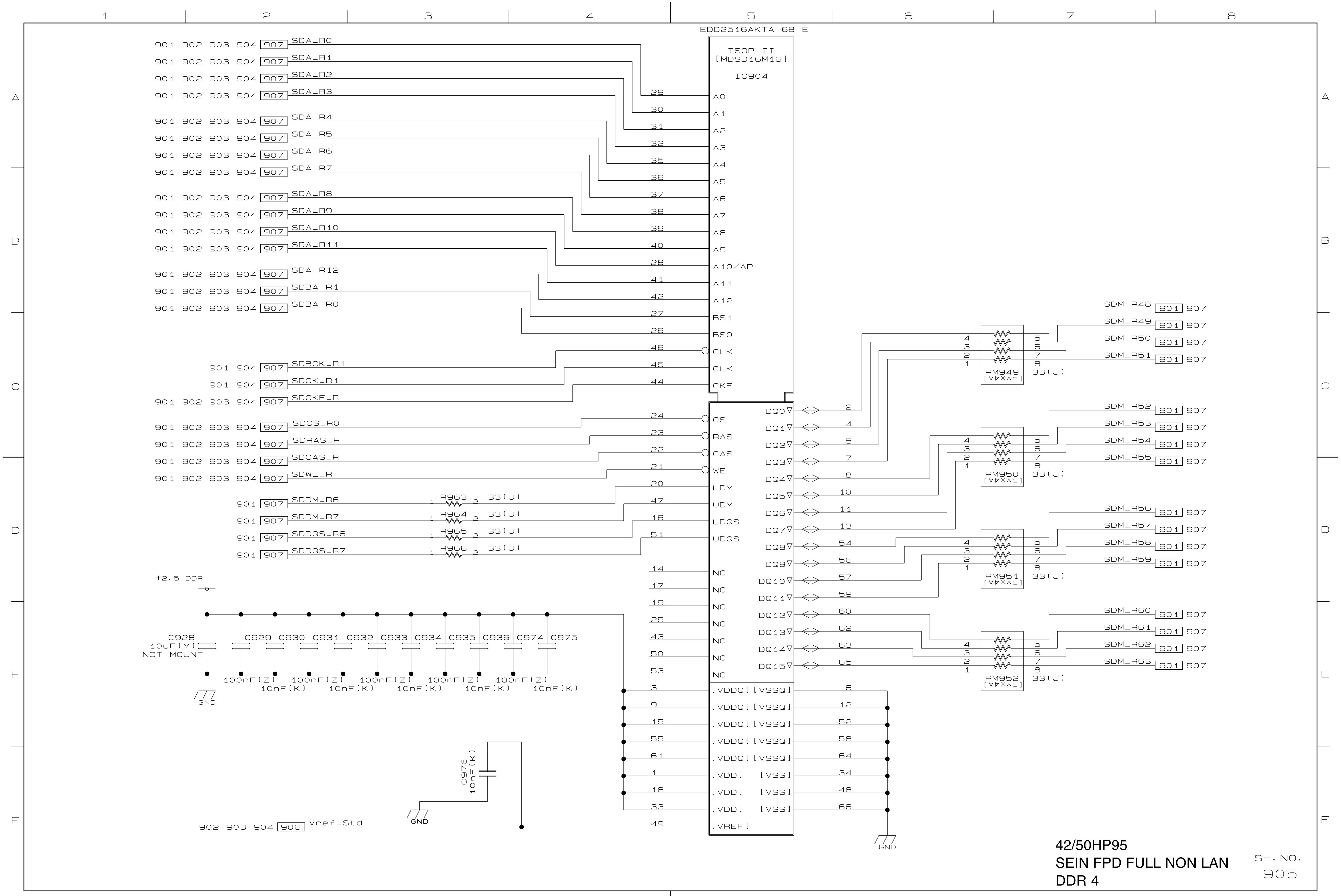
42/50HP95
SEIN FPD FULL NON LAN
DDR 2

SH. NO.
903


EDD2516AKTA-6B-E
TSOP II
[MDSD16M16]
IC903
901 902 903 905 907 SDA_R0 29 A0
901 902 903 905 907 SDA_R1 30 A1
901 902 903 905 907 SDA_R2 31 A2
901 902 903 905 907 SDA_R3 32 A3
901 902 903 905 907 SDA_R4 35 A4
901 902 903 905 907 SDA_R5 36 A5
901 902 903 905 907 SDA_R6 37 A6
901 902 903 905 907 SDA_R7 38 A7
901 902 903 905 907 SDA_R8 39 A8
901 902 903 905 907 SDA_R9 40 A9
901 902 903 905 907 SDA_R10 28 A10/AP
901 902 903 905 907 SDA_R11 41 A11
901 902 903 905 907 SDA_R12 42 A12
901 902 903 905 907 SDBA_R1 27 BS1
901 902 903 905 907 SDBA_R0 26 BS0
901 905 907 SDBCK_R1 46 CLK
901 905 907 SDCK_R1 45 CLK
901 902 903 905 907 SDCKE_R 44 CKE
901 902 903 905 907 SDCS_R0 24 CS
901 902 903 905 907 SDRAS_R 23 RAS
901 902 903 905 907 SDCAS_R 22 CAS
901 902 903 905 907 SDWE_R 21 WE
901 907 SDDM_R4 R959 33(J) 20 LDM
901 907 SDDM_R5 R960 33(J) 47 UDM
901 907 SDDQS_R4 R961 33(J) 16 LDQS
901 907 SDDQS_R5 R962 33(J) 51 UDQS
14 NC
17 NC
19 NC
25 NC
43 NC
50 NC
53 NC
DQ0 2
DQ1 4
DQ2 5
DQ3 7
DQ4 8
DQ5 10
DQ6 11
DQ7 13
DQ8 54
DQ9 56
DQ10 57
DQ11 59
DQ12 60
DQ13 62
DQ14 63
DQ15 65
3 [VDDQ] [VSSQ] 6
9 [VDDQ] [VSSQ] 12
15 [VDDQ] [VSSQ] 52
55 [VDDQ] [VSSQ] 58
61 [VDDQ] [VSSQ] 64
1 [VDD] [VSS] 34
18 [VDD] [VSS] 48
33 [VDD] [VSS] 66
49 [VREF]
RM945 [RMX4A] 33(J)
RM946 [RMX4A] 33(J)
RM947 [RMX4A] 33(J)
RM948 [RMX4A] 33(J)
SDM_R32 901 907
SDM_R33 901 907
SDM_R34 901 907
SDM_R35 901 907
SDM_R36 901 907
SDM_R37 901 907
SDM_R38 901 907
SDM_R39 901 907
SDM_R40 901 907
SDM_R41 901 907
SDM_R42 901 907
SDM_R43 901 907
SDM_R44 901 907
SDM_R45 901 907
SDM_R46 901 907
SDM_R47 901 907
+2.5_DDR
C919 10uF(M) NOT MOUNT
C920 C921 C922 C923 C924 C925 C926 C927 C971 C972
100nF(Z) 10nF(K) 100nF(Z) 10nF(K) 100nF(Z) 10nF(K) 100nF(Z) 10nF(K) 100nF(Z) 10nF(K)
C973 10nF(K)
GND
902 903 905 906 Vref_Std
1 2 3 4 5 6 7 8
A B C D E F

42/50HP95
SEIN FPD FULL NON LAN
DDR 3

SH. NO.
904


1
2
3
4
5
6
7
8
A
B
C
D
E
F
EDD2516AKTA-6B-E
TSOP II
[MDSD16M16]
IC904
901 902 903 904 907 SDA_R0 29 A0
901 902 903 904 907 SDA_R1 30 A1
901 902 903 904 907 SDA_R2 31 A2
901 902 903 904 907 SDA_R3 32 A3
901 902 903 904 907 SDA_R4 35 A4
901 902 903 904 907 SDA_R5 36 A5
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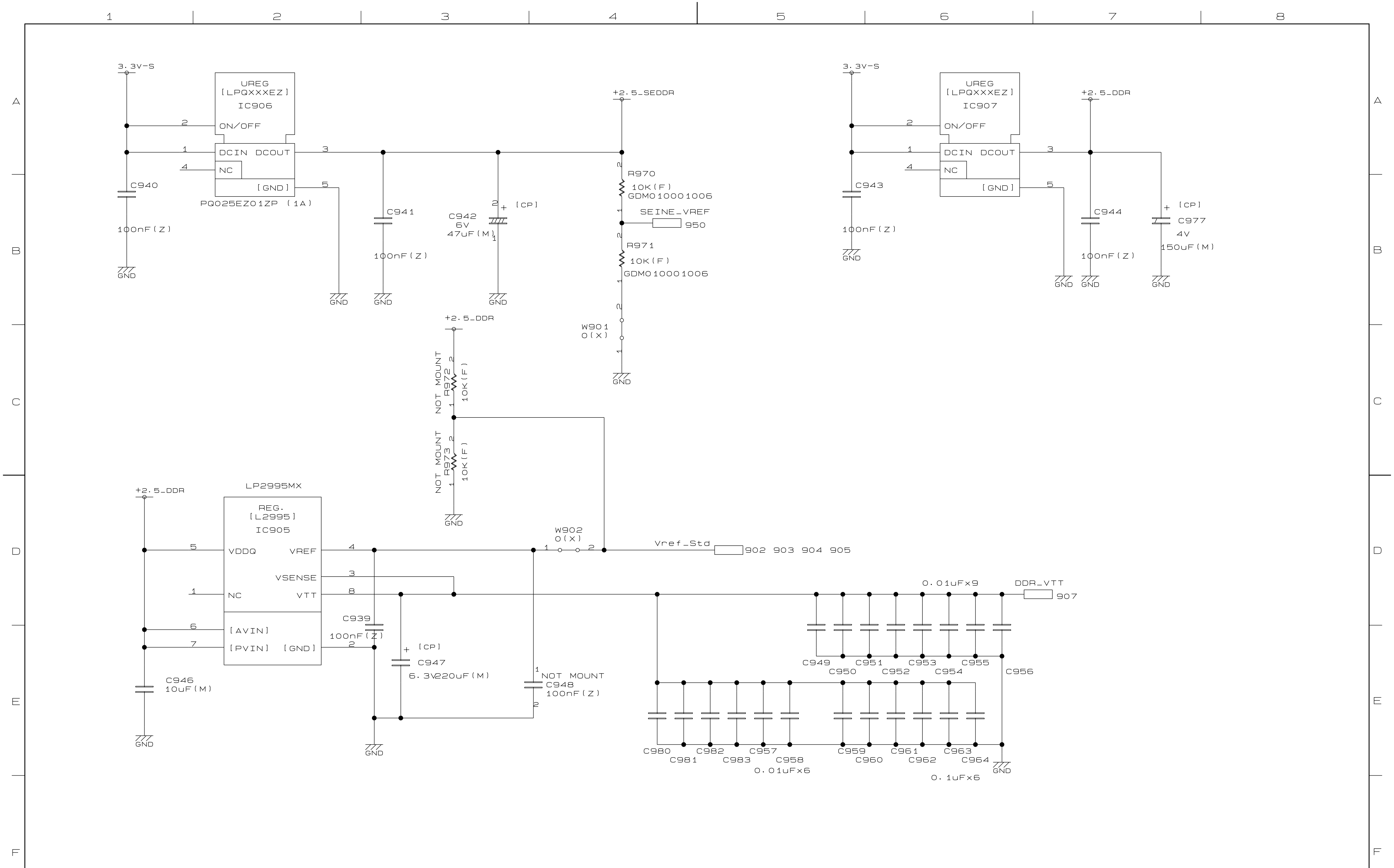
901 902 903 904 907 SDA_R7 38 A7
901 902 903 904 907 SDA_R8 39 A8
901 902 903 904 907 SDA_R9 40 A9
901 902 903 904 907 SDA_R10 28 A10/AP
901 902 903 904 907 SDA_R11 41 A11
901 902 903 904 907 SDA_R12 42 A12
901 902 903 904 907 SDBA_R1 27 BS1
901 902 903 904 907 SDBA_R0 26 BS0
46 CLK
901 904 907 SDBCK_R1 45 CLK
901 904 907 SDCK_R1 44 CKE
901 902 903 904 907 SDCKE_R
901 902 903 904 907 SDCS_R0 24 CS
901 902 903 904 907 SDRAS_R 23 RAS
901 902 903 904 907 SDCAS_R 22 CAS
901 902 903 904 907 SDWE_R 21 WE
20 LDM
901 907 SDDM_R6 1 R963 2 33(J) 47 UDM
901 907 SDDM_R7 1 R964 2 33(J) 16 LDQS
901 907 SDDQS_R6 1 R965 2 33(J) 51 UDQS
901 907 SDDQS_R7 1 R966 2 33(J)
14 NC
17 NC
19 NC
25 NC
43 NC
50 NC
53 NC
DQ0 2
DQ1 4
DQ2 5
DQ3 7
DQ4 8
DQ5 10
DQ6 11
DQ7 13
DQ8 54
DQ9 56
DQ10 57
DQ11 59
DQ12 60
DQ13 62
DQ14 63
DQ15 65
3 [VDDQ] [VSSQ] 6
9 [VDDQ] [VSSQ] 12
15 [VDDQ] [VSSQ] 52
55 [VDDQ] [VSSQ] 58
61 [VDDQ] [VSSQ] 64
1 [VDD] [VSS] 34
18 [VDD] [VSS] 48
33 [VDD] [VSS] 66
49 [VREF]
RM949 [RMX4A] 33(J)
RM950 [RMX4A] 33(J)
RM951 [RMX4A] 33(J)
RM952 [RMX4A] 33(J)
4 3 2 1
5 6 7 8
SDM_R48 901 907
SDM_R49 901 907
SDM_R50 901 907
SDM_R51 901 907
SDM_R52 901 907
SDM_R53 901 907
SDM_R54 901 907
SDM_R55 901 907
SDM_R56 901 907
SDM_R57 901 907
SDM_R58 901 907
SDM_R59 901 907
SDM_R60 901 907
SDM_R61 901 907
SDM_R62 901 907
SDM_R63 901 907
+2.5_DDR
C928
10uF(M)
NOT MOUNT
C929 C930 C931 C932 C933 C934 C935 C936 C974 C975
100nF(Z) 100nF(Z) 100nF(Z) 100nF(Z) 100nF(Z)
10nF(K) 10nF(K) 10nF(K) 10nF(K) 10nF(K)
GND
C976
10nF(K)
GND
902 903 904 906 Vref_Std
GND

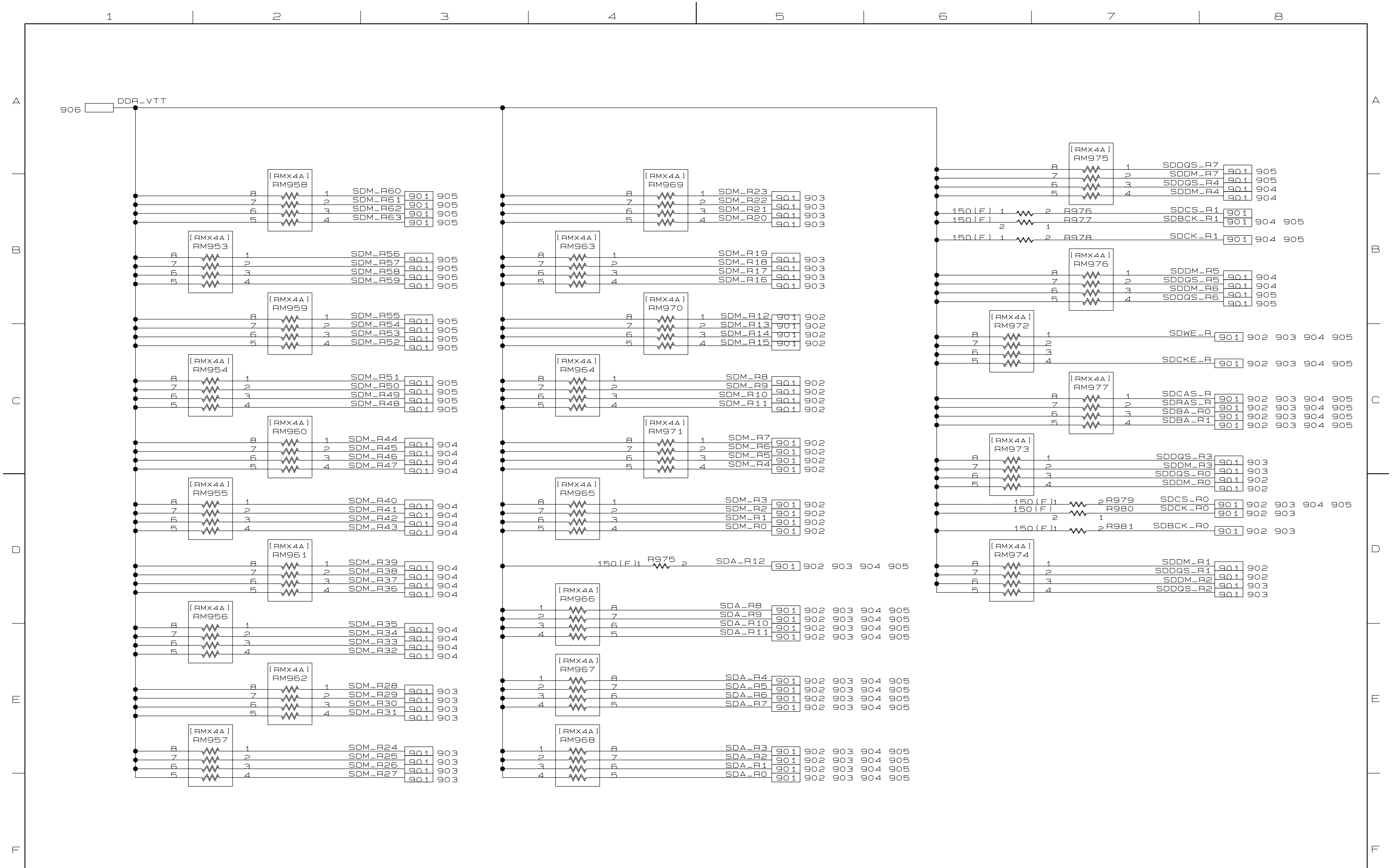
42/50HP95
SEIN FPD FULL NON LAN
DDR 4

SH. NO.
905



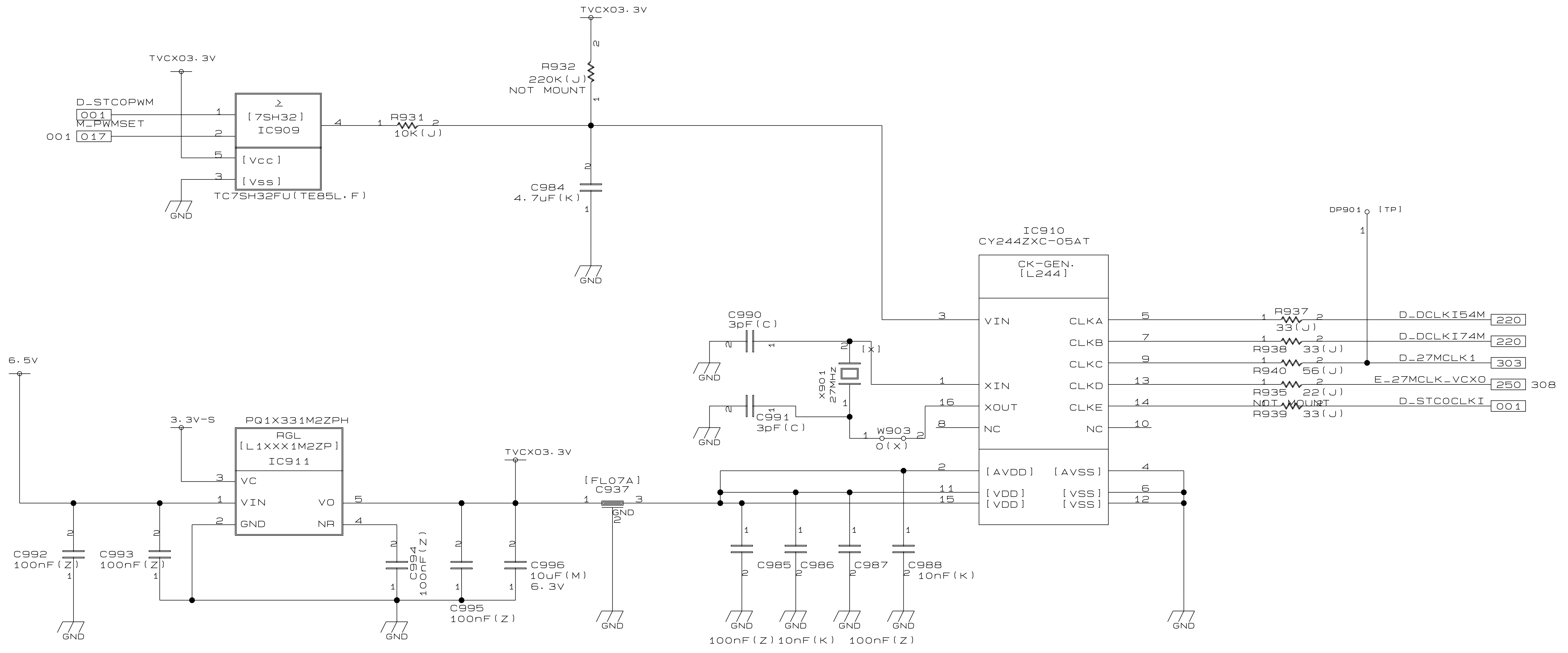
42/50HP95
SEIN FPD FULL NON LAN
DDR POWER

SH. NO.
906


1
2
3
4
5
6
7
8
A
B
C
D
E
F
906
DDR_VTT
[RMX4A] RM958 SDM_R60 SDM_R61 SDM_R62 SDM_R63 901 905
[RMX4A] RM953 SDM_R56 SDM_R57 SDM_R58 SDM_R59 901 905
[RMX4A] RM959 SDM_R55 SDM_R54 SDM_R53 SDM_R52 901 905
[RMX4A] RM954 SDM_R51 SDM_R50 SDM_R49 SDM_R48 901 905
[RMX4A] RM960 SDM_R44 SDM_R45 SDM_R46 SDM_R47 901 904
[RMX4A] RM955 SDM_R40 SDM_R41 SDM_R42 SDM_R43 901 904
[RMX4A] RM961 SDM_R39 SDM_R38 SDM_R37 SDM_R36 901 904
[RMX4A] RM956 SDM_R35 SDM_R34 SDM_R33 SDM_R32 901 904
[RMX4A] RM962 SDM_R28 SDM_R29 SDM_R30 SDM_R31 901 903
[RMX4A] RM957 SDM_R24 SDM_R25 SDM_R26 SDM_R27 901 903
[RMX4A] RM969 SDM_R23 SDM_R22 SDM_R21 SDM_R20 901 903
[RMX4A] RM963 SDM_R19 SDM_R18 SDM_R17 SDM_R16 901 903
[RMX4A] RM970 SDM_R12 SDM_R13 SDM_R14 SDM_R15 901 902
[RMX4A] RM964 SDM_R8 SDM_R9 SDM_R10 SDM_R11 901 902
[RMX4A] RM971 SDM_R7 SDM_R6 SDM_R5 SDM_R4 901 902
[RMX4A] RM965 SDM_R3 SDM_R2 SDM_R1 SDM_R0 901 902
150(F) R975 SDA_R12 901 902 903 904 905
[RMX4A] RM966 SDA_R8 SDA_R9 SDA_R10 SDA_R11 901 902 903 904 905
[RMX4A] RM967 SDA_R4 SDA_R5 SDA_R6 SDA_R7 901 902 903 904 905
[RMX4A] RM968 SDA_R3 SDA_R2 SDA_R1 SDA_R0 901 902 903 904 905
[RMX4A] RM975 SDDQS_R7 901 905 SDDM_R7 901 905 SDDQS_R4 901 904 SDDM_R4 901 904
150(F) R976 SDCS_R1 901
150(F) R977 SDBCK_R1 901 904 905
150(F) R978 SDCK_R1 901 904 905
[RMX4A] RM976 SDDM_R5 901 904 SDDQS_R5 901 904 SDDM_R6 901 905 SDDQS_R6 901 905
[RMX4A] RM972 SDWE_R 901 902 903 904 905 SDCKE_R 901 902 903 904 905
[RMX4A] RM977 SDCAS_R SDRAS_R SDBA_R0 SDBA_R1 901 902 903 904 905
[RMX4A] RM973 SDDQS_R3 901 903 SDDM_R3 901 903 SDDQS_R0 901 902 SDDM_R0 901 902
150(F) R979 SDCS_R0 901 902 903 904 905
150(F) R980 SDCK_R0 901 902 903
150(F) R981 SDBCK_R0 901 902 903
[RMX4A] RM974 SDDM_R1 901 902 SDDQS_R1 901 902 SDDM_R2 901 903 SDDQS_R2 901 903

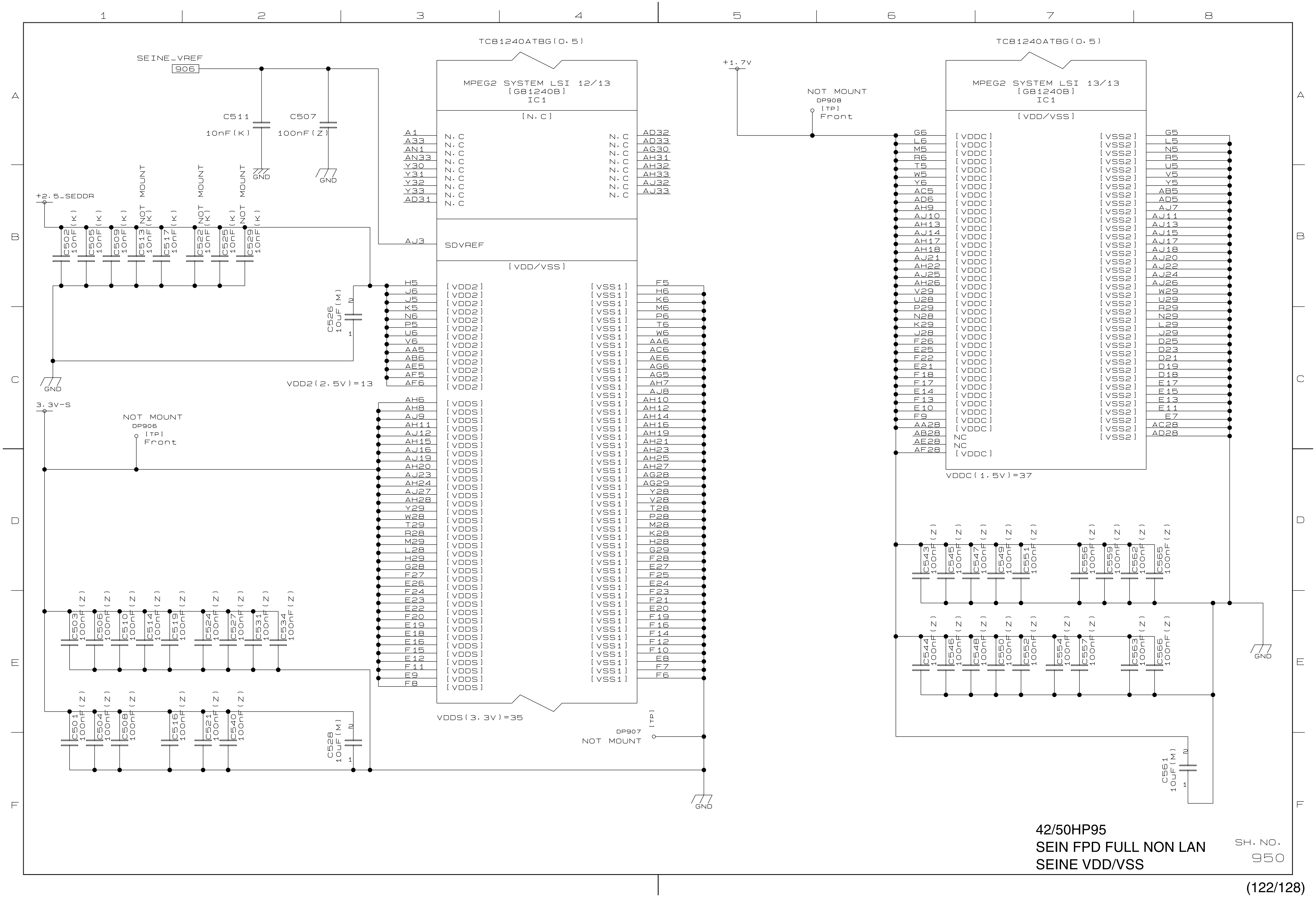
42/50HP95
SEIN FPD FULL NON LAN
TERMINATOR

SH. NO.
907



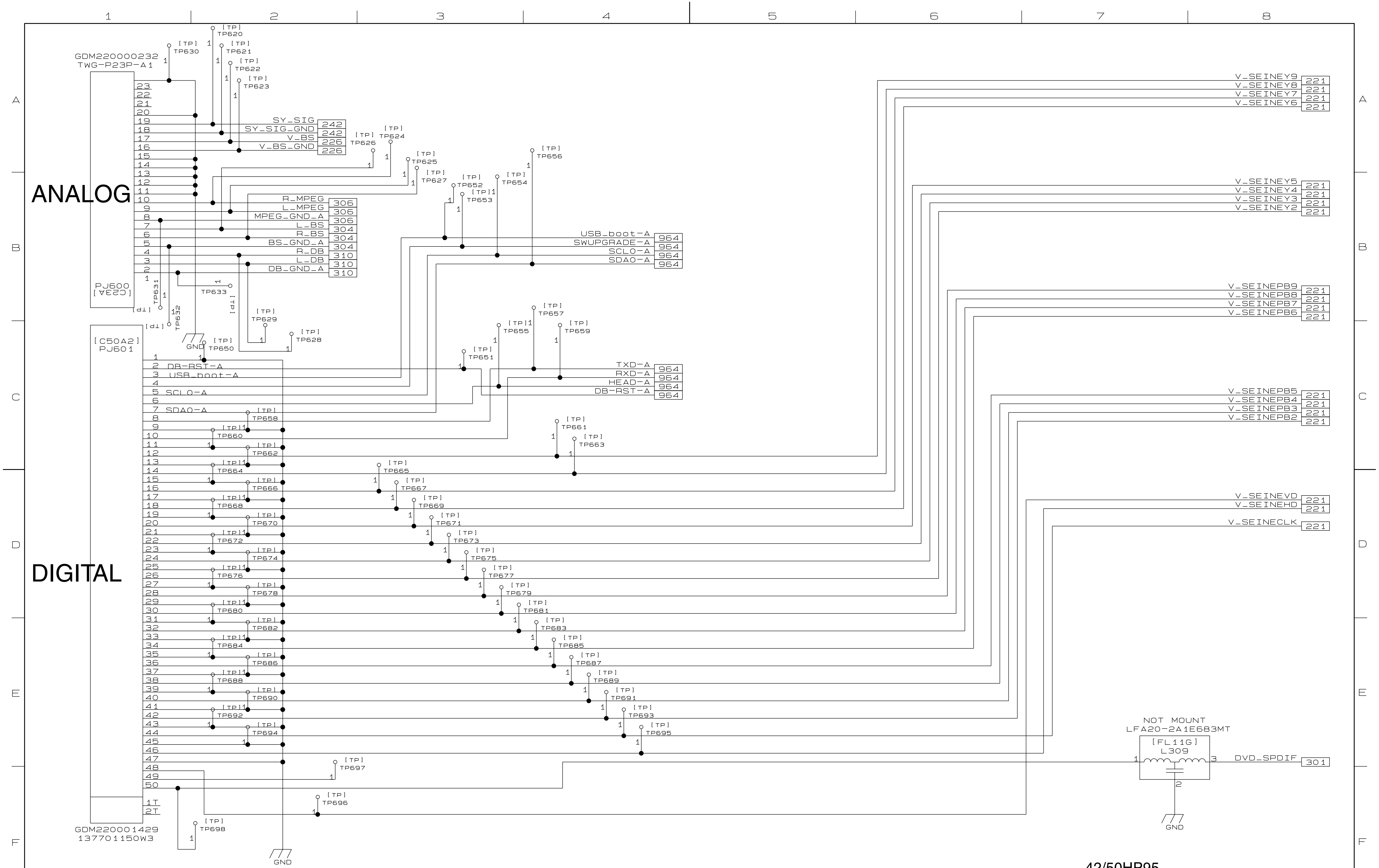
42/50HP95
SEIN FPD FULL NON LAN
VCXO

SH. NO.
941



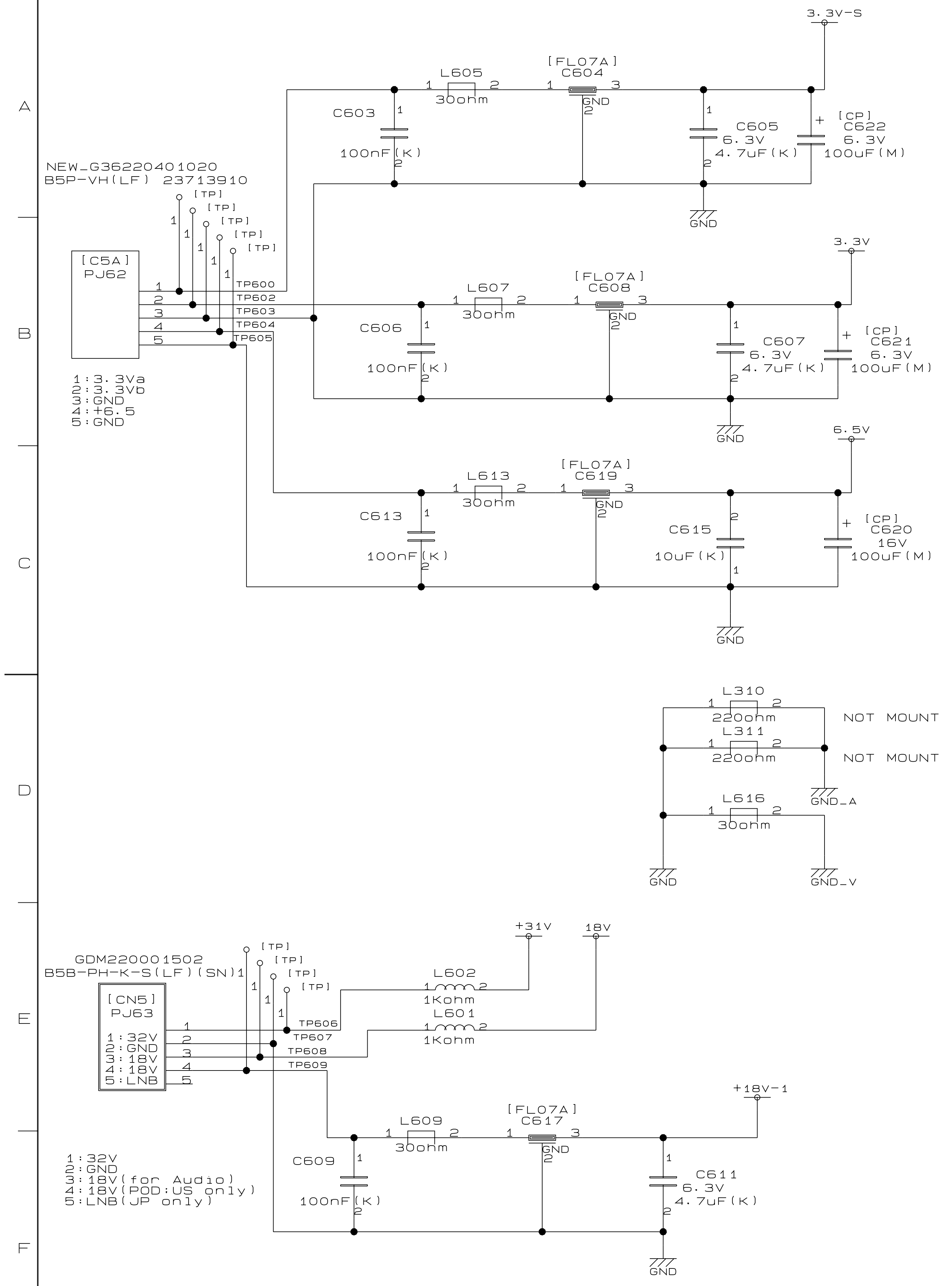
42/50HP95
SEIN FPD FULL NON LAN
SEINE VDD/VSS

SH. NO.
950



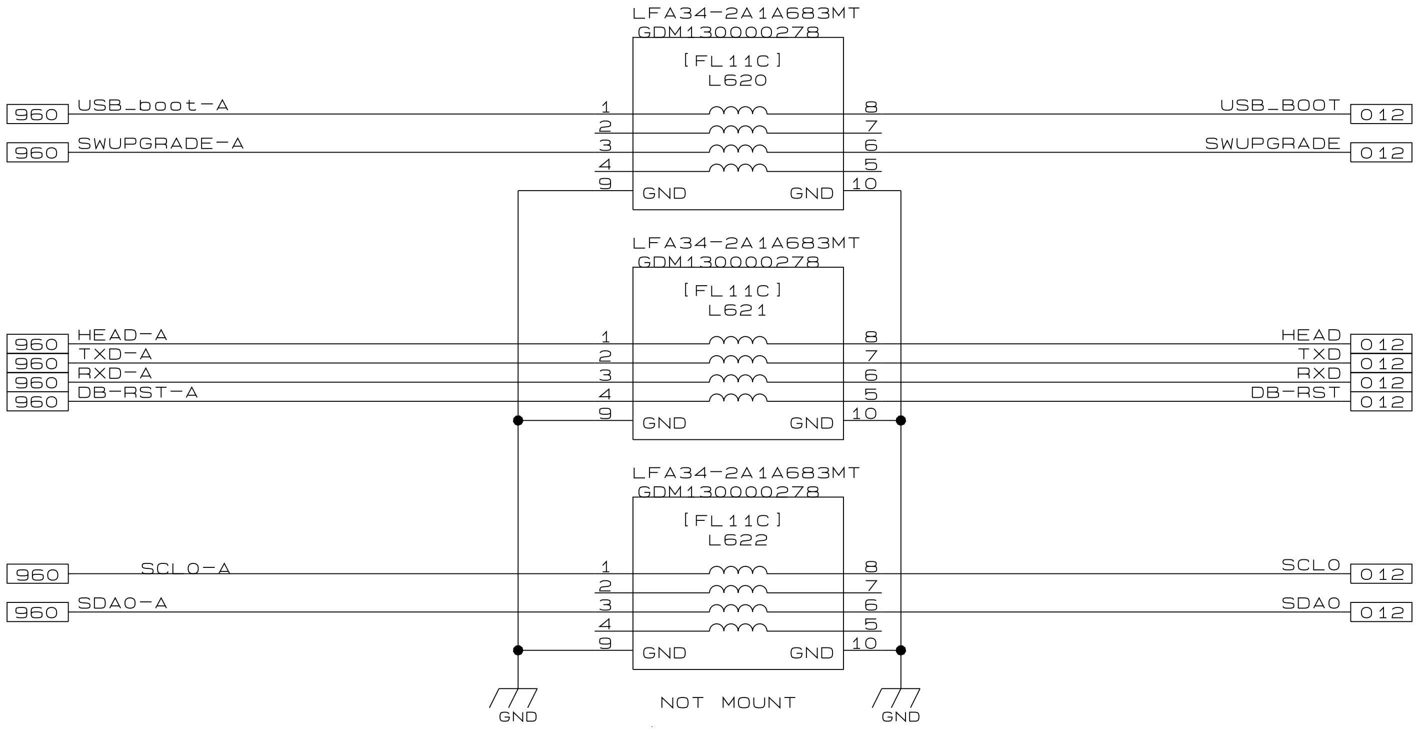
42/50HP95
SEIN FPD FULL NON LAN
SIGNAL CONNECTOR

SH. NO.
960



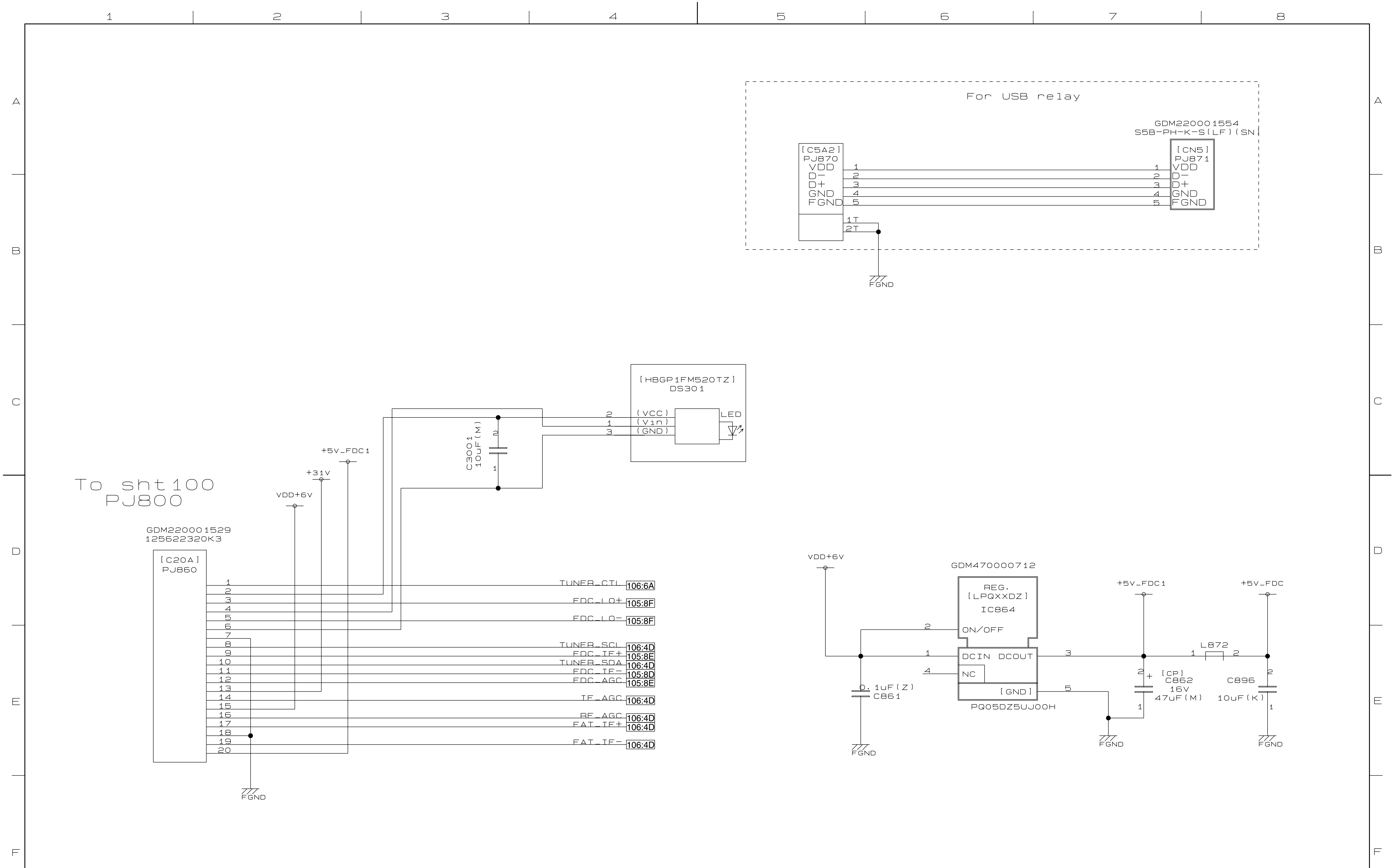
42/50HP95
SEIN FPD FULL NON LAN
POWER CONNECTOR

SH. NO.
961



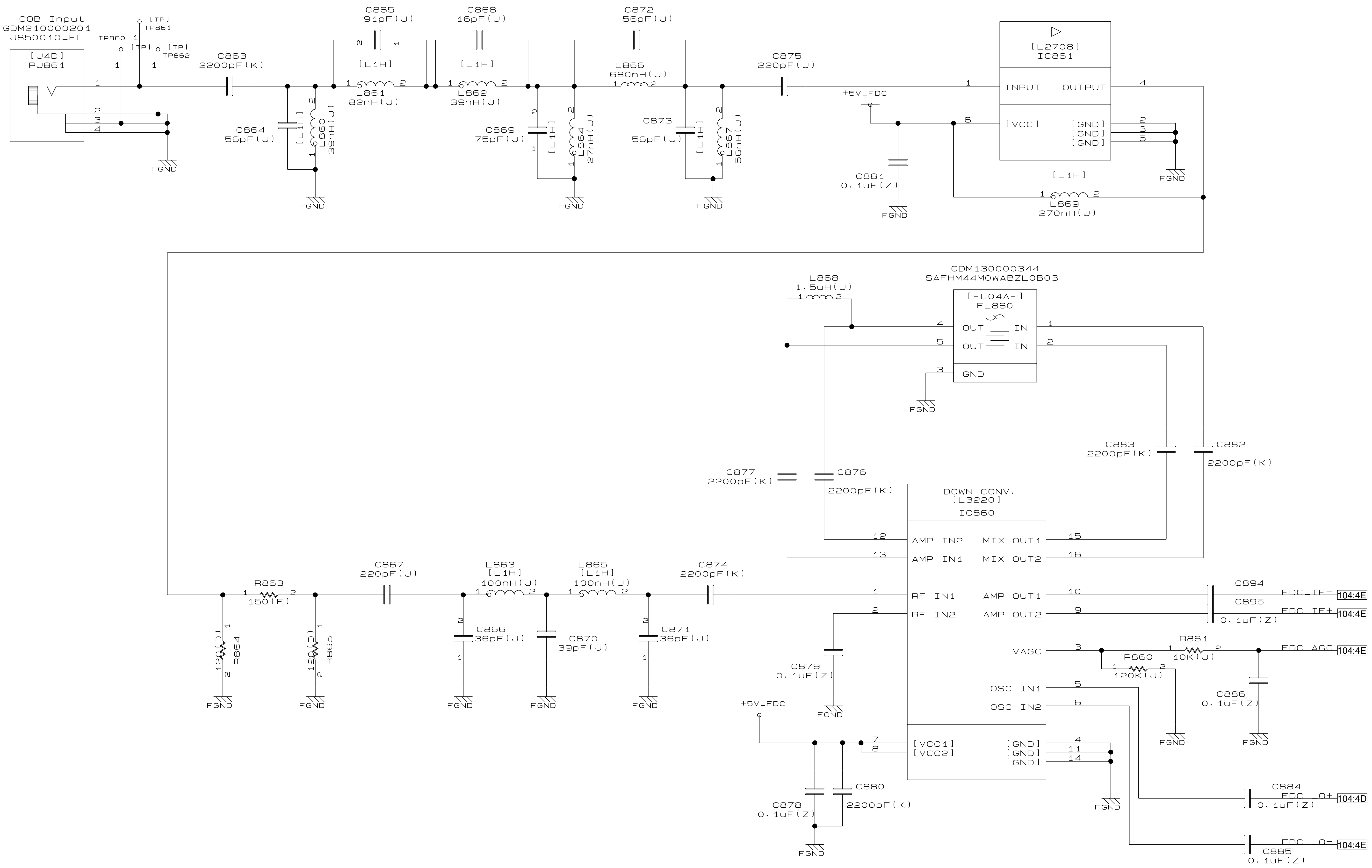
42/50HP95
SEIN FPD FULL NON LAN
Signal filter

SH. NO.
964



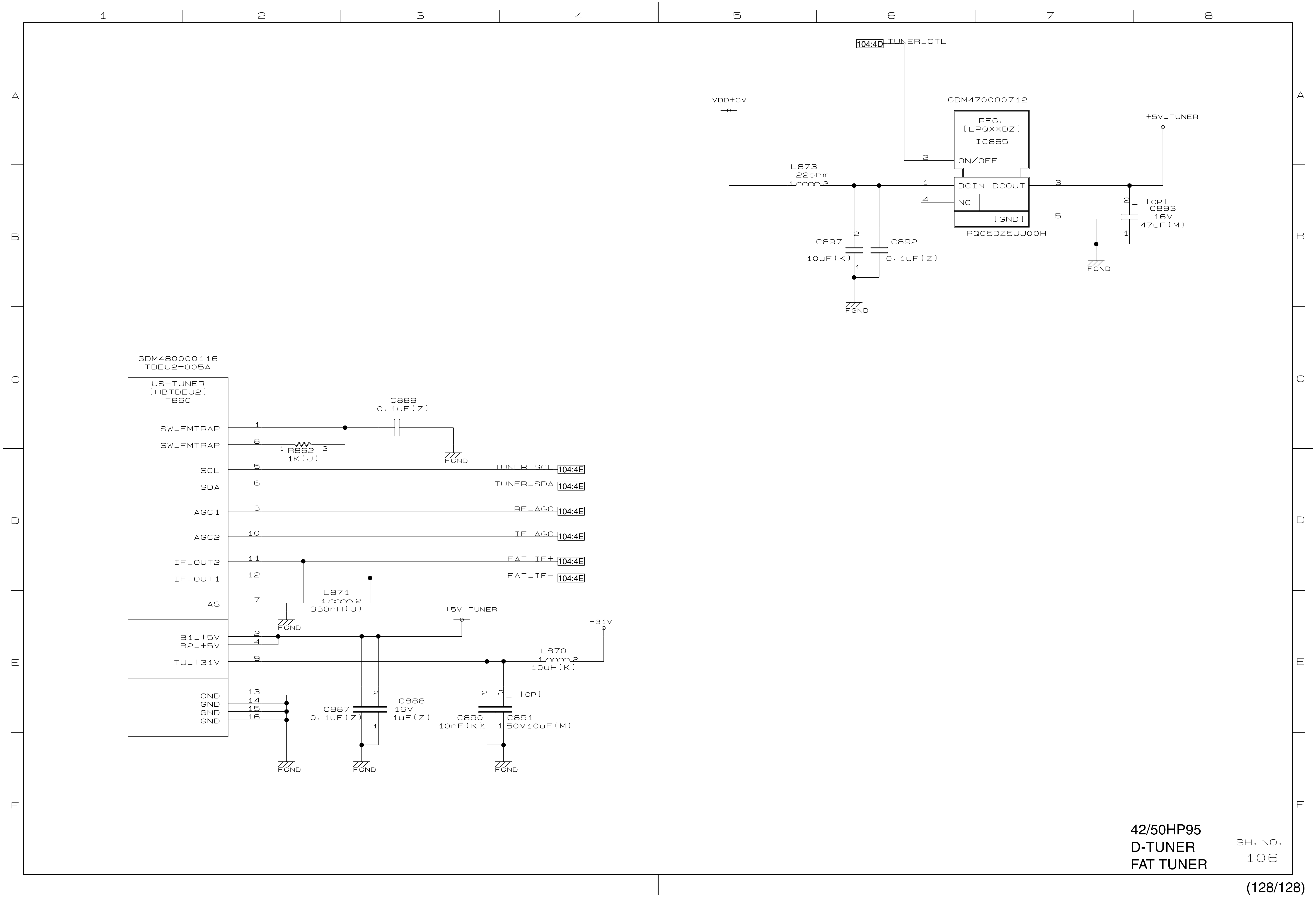
42/50HP95
D-TUNER
TUNER CONNECTOR(TUNER)

SH. NO.
104



42/50HP95
D-TUNER OOB FDC

SH. NO.
105



42/50HP95
D-TUNER
FAT TUNER

SH. NO.
106